





Keyboards and Input Devices

2008

for industrial, medical and commercial applications





About InduKey®

InduKey®, based near Treuen in Germany, is one of the leading manufacturer of rugged Industrial and Medical Keyboards and Input Devices. Founded in 1996, InduKey® products are supported by world-class engineering, R&D and manufacturing expertise. InduKey® provides practical solutions to specific application requirements, whatever your market.

InduKey® Products

InduKey® manufactures a wide range of standard and customised Industrial Keyboard solutions. Our range of keyboards also feature various integral pointing devices such as Touchpads, Trackballs, Mousebuttons and Joysticks. Our range includes Short Travel, Metal-dome, Silicone Rubber, Stainless-Steel Vandal-Proof, Flexible Membrane and Long Travel Keyboards.

Customisation

Custom Keyboards, with their specific requirements, demand the most exacting standards of design and manufacture. InduKey® has the expertise and experience to meet these standards and guarantee technical excellence every step of the way. We guarantee that the keyboards we design and produce for you are manufactured exactly according to your specifications.

Partner

InduKey® is a world-wide operating company. Our global distribution policy facilitates the customer to acquire keyboards, data input devices and customized solutions all over the world. On page 4 all our distribution partners are listed.

Commitment to Quality

By using the highest quality components InduKey® can assure excellent reliability and durability of its Input Devices. InduKey® is ISO 9001 certified.

InduKey® website

Visit our website at **www.indukey.com** to find even more information on latest products, InduKey® news and technical data.





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The products in this catalogue are accompanied by one or more symbols. These visualizations provide information about the different features and additional functions. On this page we will explain to you the meaning of this symbols.



This symbol indicates special product features or modifications. It also provides information on the possible application areas of the respective product. This indication also applies to the daughter products.



This sign indicates keyboards with antimicrobial surfaces. The material of this surfaces contains substances which prevent the growth of bacteria and germs.



This icon stands for a higher IP level, from IP65 upwards (see explanation on page 51). All products marked with this symbol are particularly suited for the application in rugged environments.



This sign stands for the wireless data transmission from the data input unit to the RF-based system. Thus, the input systems can be used in a flexible and mobile



This symbol marks all data input devices with illumination feature. The backlight illumination of the control panel allows for an enhanced visibility of the keys and its markings in dark environments.



This icon refers to the biometric recognition used for system access control. As an integrated or stand-alone device, the software provided scans and identifies fingerprints.



This symbol refers to devices which can be applied in potentially explosive environments. Due to their strict testing and certification, these devices comply with the so-called EX standard.



This symbol marks all new products and all product modifications.



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Even more individual and application-relevant: In addition to the standard models available at any time, the foil keyboards of the TKS series offer a vast range of modification possibilities. For more information on the individual possibilities, contact our consultants.





Short Travel Keyboards

All Short Travel Keyboards use high quality OMRON mechanical switches soldered to a rugged PCB which also contains the keyboard controller. A 3 mm thick aluminium plate with cut-outs for the keys and LEDs is placed over the top and protects the keys and PCB from any heavy impact. The 150 µm thick Autotex polyester frontsheet is wear and tear resistant as the legends are printed on the rearside and is also resistant to most industrial chemicals. The keyboards are available as desktop, 19 inch rack-mount or panel-mount versions. Our Short Travel Keyboards are sealed to IP65 and are available with mechanical trackball, IP68 optical trackball, capacitive touchpad or joystick. Interfaces available as PS/2 or USB. We offer semi or full customisation on all Short Travel Keyboards.

Features and benefits:

- Highly reliable OMRON mechanical switches
- Positive tactile feedback and key embossing
- Integrated trackball, touchpad or joystick
- PS/2 and USB compatible
- Integratable fingerprint sensor on request
- 19 inch 1U drawer compatible units
- Desktop and panel-mount versions available
- Rugged construction for reliable functionality
- Chemical, abrasion and scratch resistant frontsheet
- Ergonomic design
- > IP65 (NEMA 4x) sealing
- > 3 million operations per key
- Activation force 2.6 N, key travel 0,3 mm
- Semi- or full customisation available



TKS-105a-KGEH





Specification

Number of Keys: 105

Keyswitch Technology: short travel keys
Actuation Force/ -Travel: 2.6 N / 0.3 mm
Keyswitch Lifetime: 3 mil. operations
Protection Level: IP65, NEMA 4x

Mounting Type: desktop

Dimensions: 480 x 182 x 34 mm

18.89" x 7.16" x 1.34"

Weight: 1600 g

Operating Temperature: -40 °C to +90 °C

-40 °F to +194 °F

Enclosure Material: polystyrene

CatNo.	Product Name	
KS07211	TKS-105a-KGEH-PS/2-US	PS/2; US-Layout
KS09451	TKS-105a-KGEH-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		

Short Travel Keyboards



TKS-105a-TB38-KGEH

Specification

Dimensions: 480 x 182 x 43 mm

18.89" x 7.16" x 1.69"

Weight: 1800 g Basic Specification: see page 8

Specification Trackball

Ball Diameter: 38 mm / 1.5"

Actuation Force: 50 g

Trackball Lifetime: > 6 mil. revolutions
Protection Level: IP54 dynamic; NEMA 3



CatNo.	Product Name	
KS08271	TKS-105a-TB38-KGEH-PS/2-US	PS/2; US-Layout
KS09453	TKS-105a-TB38-KGEH-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKS-105a-TOUCH-KGEH

Specification

Dimensions: 480 x 182 x 34 mm

18.89" x 7.16" x 1.34"

Weight: 1600 g Basic Specification: see page 8

Specification Touchpad



CatNo.	Product Name	
KS07216	TKS-105a-TOUCH-KGEH-PS/2-US	PS/2; US-Layout
KS09455	TKS-105a-TOUCH-KGEH-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKS-105a-MGEH







• MGEH-versions with stainless steel enclosure

Specification

Number of Keys: 105

Keyswitch Technology: short travel keys
Actuation Force/ -Travel: 2.6 N / 0.3 mm
Keyswitch Lifetime: 3 mil. operations
Protection Level: IP65, NEMA 4x

Mounting Type: desktop

Dimensions: 505 x 198 x 35 mm

19.88" x 7.79" x 1.38"

Weight: 2800 g

Operating Temperature: -40 °C to +90 °C

-40 °F to +194 °F

Enclosure Material: stainless steel

CatNo.	Product Name	
KS14014	TKS-105a-MGEH-PS/2-US	PS/2; US-Layout
KS14016	TKS-105a-MGEH-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKS-105a-TB38-MGEH

Specification

Dimensions: 505 x 198 x 45 mm

19.88" x 7.79" x 1.77"

Weight: 3000 g
Basic Specification: see page 10

Specification Trackball

Ball Diameter: 38 mm / 1.5"

Actuation Force: 50 g

Trackball Lifetime: > 6 mil. revolutions
Protection Level: IP54 dynamic; NEMA 3



CatNo.	Product Name	
KS14018	TKS-105a-TB38-MGEH-PS/2-US	PS/2; US-Layout
KS14020	TKS-105a-TB38-MGEH-USB-US	USB; US-Layout
Other lang	uage versions/interfaces/configurat	ion available on request



TKS-105a-TOUCH-MGEH

Specification

Dimensions: 505 x 198 x 35 mm

19.88" x 7.79" x 1.38"

Weight: 2800 g
Basic Specification: see page 10

Specification Touchpad



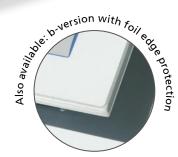
CatNo.	Product Name	
KS14022	TKS-105a-TOUCH-MGEH-PS/2-US	PS/2; US-Layout
KS14024	TKS-105a-TOUCH-MGEH-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKS-105a/b-MODUL









• TKS-105b-versions with foil edge protection

Specification

Number of Keys: 105

Keyswitch Technology: short travel keys
 Actuation Force/ -Travel: 2.6 N / 0.3 mm
 Keyswitch Lifetime: 3 mil. operations
 Protection Level: IP65, NEMA 4x (front)

Mounting Type: panel mount

Dimensions: 482.6 x 177.8 x 23 mm

19" x 7" x 0.90"

Weight: 1500 g

Operating Temperature: -40 °C to +90 °C

-40 °F to +194 °F

Front Panel Material: aluminium

CatNo.	Product Name	
KS07241	TKS-105a-MODUL-PS/2 -US	PS/2; US-Layout
KS09490	TKS-105a-MODUL-USB-US	USB; US-Layout
KS13021	TKS-105b-MODUL-PS/2 -US	PS/2; US-Layout
KS13023	TKS-105b-MODUL-USB -US	USB; US-Layout
Other language versions/interfaces/configuration available on request		

Short Travel Keyboards





TKS-105a/b-TBxx-MODUL

Specification

TKS-105a/b-TB38-MODUL

Dimensions: 482.6 x 177.8 x 48 mm

19" x 7" x 2.125"

Weight: 1600 g
Ball Diameter: 38 mm / 1.5"

Actuation Force: 50 g

Trackball Lifetime: > 6 mil. revolutions
Protection Level IP65 static; IP54 dynamic;

NEMA 3 (front)

TKS-105a/b-TB50oF80-MODUL

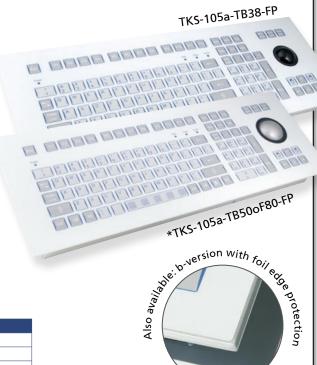
Weight: 1900 g Ball Diameter: 50 mm / 2"

Actuation Force: 80 g

Protection Level: *IP65; NEMA 6 (front)

Basic Specification: see page 12

CatNo.	Product Name	
KS08308	TKS-105a-TB38-MODUL-PS/2-US	PS/2; US-Layout
KS09498	TKS-105a-TB38-MODUL-USB-US	USB; US-Layout
KS01201	TKS-105a-TB50oF80-MODUL-PS/2-US	PS/2; US-Layout
KS01203	TKS-105a-TB50oF80-MODUL-USB-US	USB; US-Layout
KS13026	TKS-105b-TB38-MODUL-PS/2-US	PS/2; US-Layout
KS13028	TKS-105b-TB38-MODUL-USB-US	USB; US-Layout
KS14006	TKS-105b-TB50oF80-MODUL-PS/2-US	PS/2; US-Layout
KS14008	TKS-105b-TB50oF80-MODUL-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		





TKS-105a/b-TOUCH-MODUL

8 8888 8888 88888

Specification

Dimensions: 482.6 x 177.8 x 23 mm

19" x 7" x 0.905"

Weight: 1500 g Basic Specification: see page 12

Specification Touchpad

CatNo.	Product Name	
KS07246	TKS-105a-TOUCH-MODUL-PS/2-US	PS/2; US-Layout
KS09502	TKS-105a-TOUCH-MODUL-USB-US	USB; US-Layout
KS13031	TKS-105b-TOUCH-MODUL-PS/2-US	PS/2; US-Layout
KS13033	TKS-105b-TOUCH-MODUL-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		





TKS-105a/b-JSTb-MODUL









- New user-friendly joystick
- TKS-105b-version available with foil edge protection

Specification

Number of Keys: 105

Keyswitch Technology: short travel keys
Actuation Force/-Travel: 2.6 N / 0.3 mm
Keyswitch Lifetime: 3 mil. operations
Protection Level: IP65, NEMA 4x (front)

Mounting Type: panel mount

Dimensions: 482.6 x 177.8 x 23 mm

19" x 7" x 0.90"

Weight: 2000 g

Operating Temperature: 0 °C to +50 °C

32 °F to 122 °F

Front Panel Material: aluminium

Specification Joystick JSTb

Stick Length 63 mm
Activation Force: 2,25 N
Operation Angle: +/- 18 °

CatNo.	Product Name	
KS15003	TKS-105a-JSTb-MODUL-PS/2-US	PS/2; US-Layout
KS15005	TKS-105a-JSTb-MODUL-USB-US	USB; US-Layout
KS15007	TKS-105b-JSTb-MODUL-PS/2-US	PS/2; US-Layout
KS15009	TKS-105b-JSTb-MODUL-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		





TKS-105a-TB38-RF-KGEH



- First wireless industrial keyboard with integrated trackball
- 2.4 GHz with a range of up to 10 meters



Specification Keyboard

Number of Keys: 105

Keyswitch Technology: short travel keys
Actuation Force/-Travel: 2.6 N / 0.3 mm
Keyswitch Lifetime: 3 mil operations

Mounting Type: desktop

Dimensions: 480 x 182 x 40 mm

18.89" x 7.16" x 1.57"

Weight: 1600 g

Operation Temperature: -40 °C to +90 °C

-40 °F to +194 °F

Enclosure Material: polysterene

Specification Trackball

Ball Diameter: 38 mm / 1.5"

Actuation Force: 50 g

Trackball Lifetime: > 6 mil. revolutions
Protection Level: IP54 dynamic; NEMA 3

Specification RF-interface

Transmission Range: typ. 10 m
Frequency: 2.4 GHz
Electronic Interface: USB

CatNo.	Product Name	
KS14026	TKS-105a-TB38-RF-KGEH-USB-US	USB; US-Layout
Other lan	guage versions/interfaces/configuration available on request	



TKS-105a-FP-3HE







• InduKey's FP-series contains front mounting drills for easy rack-mount integration

Specification

Number of Keys: 105

Keyswitch Technology:short travel keysActuation Force/ -Travel:2.6 N / 0.3 mmKeyswitch Lifetime:3 mil. operationsProtection Level:IP65, NEMA 4x (front)

Mounting Type: 19" rack mount

Dimensions: 482.6 x 133.5 (3U) x 38 mm

19.0" x 5.26" x 1.5"

Weight: 1100 g

Operating Temperature: -40 °C to +90 °C

-40 °F to +194 °F

Front Panel Material: aluminium

CatNo.	Product Name	
KS09404	TKS-105a-FP-3HE-PS/2-US	PS/2; US-Layout
KS09461	TKS-105a-FP-3HE-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKS-105a-TB38-FP-3HE

Specification

Dimensions: 482.6 x 133.5 (3 U) x 38 mm

19" x 5.26" x 1.5"

Weight: 1300 g
Basic Specification: see page 16

Specification Trackball

Ball Diameter: 38 mm / 1.5"

Actuation Force: 50 g

Trackball Lifetime: > 6 mil. revolutions
Protection Level: IP54 dynamic;

NEMA 3 (front)

CatNo.	Product Name	
KS09204	TKS-105a-TB38-FP-3HE-PS/2-US	PS/2; US-Layout
KS09474	TKS-105a-TB38-FP-3HE-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKS-105a-TOUCH-FP-3HE

Specification

Dimensions: 482.6 x 133.5 (3U) x 38 mm

19" x 5.26" x 1.5"

Weight: 1100 g
Basic Specification: see page 16

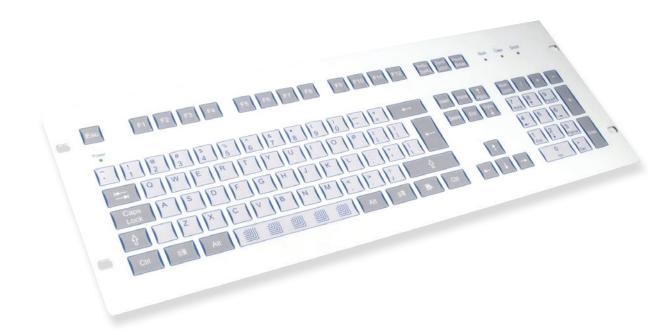
Specification Touchpad

CatNo.	Product Name	
KS09405	TKS-105a-TOUCH-FP-3HE-PS/2-US	PS/2; US-Layout
KS09482	TKS-105a-TOUCH-FP-3HE-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKS-105a-FP-4HE







• InduKey's FP-series contains front mounting drills for easy rack-mount integration

Specification

Number of Keys: 105

Keyswitch Technology:short travel keysActuation Force/ -Travel:2.6 N / 0.3 mmKeyswitch Lifetime:3 mil. operationsProtection Level:IP65; NEMA 4x (front)

Mounting Type: 19" rack mount

Dimensions: 482.6 x 177.8 x 23 mm

19" x 7" x 0.90" (19"; 4 U)

Weight: 1500 g

Operating Temperature: -40 °C to +90 °C

-40 °F to +194 °F

Front Panel Material: aluminium

CatNo.	Product Name	
KS07221	TKS-105a-FP-PS/2-US	PS/2; US-Layout
KS09457	TKS-105a-FP-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		

Short Travel Keyboards



TKS-105a-TB38-FP

*TKS-105a-TB500F80-FP



TKS-105a-TBxx-FP-4HE

8888 8888 8888 **888**

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B 8688 8888 8888

Specification

TKS-105a-TB38-FP

Dimensions: 482.6 x 177.8 x 48 mm

19" x 7" x 1.88"

Weight: 1600 g

Ball Diameter: 38 mm / 1.5"

Actuation Force: 50 g

Trackball Lifetime: > 6 mil. revolutions

Protection Level: IP54 dynamic; NEMA 3 (front)

TKS-105a-TB50oF80-FP

Dimensions: 482.6 x 177.8 x 48 mm

19" x 7" x 1.88"

Weight: 1900 g Ball Diameter: 50 mm / 2"

Actuation Force: 80 g

Trackball Lifetime: > 6 mil. revolutions
Protection Level: *IP65; NEMA 6 (front)

Basic Specification: see page 18

CatNo.	Product Name	
KS08304	TKS-105a-TB38-FP-PS/2-US	PS/2; US-Layout
KS09470	TKS-105a-TB38-FP-USB-US	USB; US-Layout
KS01205	TKS-105a-TB50oF80-FP-PS/2-US	PS/2; US-Layout
KS01207	TKS-105a-TB50oF80-FP-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKS-105a-TOUCH-FP-4HE

Specification

Dimensions: 482.6 x 177.8 x 23 mm

19" x 7" x 0.905"

Weight: 1500 g Basic Specification: see page 18

Specification Touchpad

CatNo.	Product Name	
KS07226	TKS-105a-TOUCH-FP-PS/2-US	PS/2; US-Layout
KS09478	TKS-105a-TOUCH-FP-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		





TKS-104a-KGEH







• A space saving Desktop version of the TKS series

Specification

Number of Keys: 104

Keyswitch Technology: short travel keys
Actuation Force/ -Travel: 2.6 N / 0.3 mm
Keyswitch Lifetime: 3 mil. operations
Protection Level: IP65; NEMA 4x

Mounting Type: desktop

Dimensions: 372 x 182 x 34 mm

14.64" x 7.16" x 1.34"

Weight: 1300 g

Operating Temperature: -40 °C to +90 °C

-40 °F to +194 °F

Enclosure Material: polystyrene

CatNo.	Product Name	
KS07201	TKS-104a-KGEH-PS/2-US	PS/2; US-Layout
KS09506	TKS-104a-KGEH-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKS-088a-TB38-KGEH

Specification

Number of Keys: 88

Dimensions: 372 x 182 x 43 mm

14.64" x 7.16" x 1.7"

Weight: 1500 g
Basic Specification: see page 20

Specification Trackball

Ball Diameter: 38 mm / 1.5"

Actuation Force: 50 g

Trackball Lifetime: > 6 mil. revolutions

Protection Level: IP65 static;

IP54 dynamic; NEMA 3 (front)



CatNo.	Product Name	
KS08261	TKS-088a-TB38-KGEH-PS/2-US	PS/2; US-Layout
KS09508	TKS-088a-TB38-KGEH-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKS-088a-TOUCH-KGEH

Specification

Number of Keys: 88

Dimensions: 372 x 182 x 34 mm

14.64" x 7.16" x 1.34"

Weight: 1400 g Basic Specification: see page 20

Specification Touchpad



CatNo.	Product Name	
KS07206	TKS-088a-TOUCH-KGEH-PS/2-US	PS/2; US-Layout
KS09510	TKS-088a-TOUCH-KGEH-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKS-104a/b-MODUL









• TKS-105b-versions with foil edge protection

Specification

Number of Keys: 104

Keyswitch Technology: short travel keys Actuation Force/ -Travel: 2.6 N / 0.3 mm Keyswitch Lifetime: 3 mil. operations Protection Level: IP65; NEMA 4x (front)

Mounting Type: panel mount Dimensions: 370 x 180 x 23 mm 14.56" x 7.08" x 0.905"

Weight: 1400 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Front Panel Material: aluminium

CatNo.	Product Name	
KS07231	TKS-104a-MODUL-PS/2-US	PS/2; US-Layout
KS09512	TKS-104a-MODUL-USB-US	USB; US-Layout
KS15011	TKS-104b-MODUL-PS/2-US	PS/2; US-Layout
KS15013	TKS-104b-MODUL-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKS-088a/b-TB38-MODUL

Specification

Number of Keys: 88

Dimensions: 370 x 180 x 43 mm

14.56" x 7.08" x 1.7"

Weight: 1500 g
Basic Specification: see page 22

Specification Trackball

Ball Diameter: 38 mm / 1.5"

Actuation Force: 50 g

Trackball Lifetime: > 6 mil. revolutions

Protection Level: IP65 static;

IP54 dynamic; NEMA 3 (front)

CatNo.	Product Name	
KS08312	TKS-088a-TB38-MODUL-PS/2-US	PS/2; US-Layout
KS09520	TKS-088a-TB38-MODUL-USB-US	USB; US-Layout
KS15015	TKS-088b-TB38-MODUL-PS/2-US	PS/2; US-Layout
KS15017	TKS-088b-TB38-MODUL-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		





TKS-088a/b-TOUCH-MODUL

Specification

Number of Keys: 88

Dimensions: 370 x 180 x 23 mm

14.56" x 7.08" x 0.905"

Weight: 1400 g

Basic Specifications: see page 22

Specification Touchpad

CatNo.	Product Name	
KS07236	TKS-088a-TOUCH-MODUL-PS/2-US	PS/2; US-Layout
KS09524	TKS-088a-TOUCH-MODUL-USB-US	USB; US-Layout
KS15019	TKS-088b-TOUCH-MODUL-PS/2-US	PS/2; US-Layout
KS15021	TKS-088b-TOUCH-MODUL-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		





Short Travel Keyboards for Medical Application

TKS-088b-TOUCH-AM-KGEH











- Polyester front sheet with antimicrobial properties
- For an added level of protection against harmful microbes
- Still 99% efficiency after a simulated 15-year-use

Specification

Number of Keys: 88

Keyswitch Technology: short travel keys
Actuation Force/ -Travel: 2.6 N / 0.3 mm
Keyswitch Lifetime: 3 mil. operations
Protection Level: IP65; NEMA 4x

Mounting Type: desktop

Dimensions: 372 x 182 x 34 mm

14.645" x 7.165" x 1.33"

Weight: 1400 g

Operating Temperature: -40 °C to +90 °C

-40 °F to +194 °F

Enclosure Material: polystyrene

Specification Touchpad

CatNo.	Product Name	
KS03213	TKS-088b-TOUCH-AM-KGEH-PS/2-US	PS/2; US-Layout
KS13209	TKS-088b-TOUCH-AM-KGEH-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		





TKS-105a/b-TB38-MODUL-USBPORT



- Keyboard front equipped with USB port
- Integrated 38mm-Trackball
- TKS-105b-version available with foil edge protection



Specification

Number of Keys: 88

Keyswitch Technology:short travel keysActuation Force/ -Travel:2.6 N / 0.3 mmKeyswitch Lifetime:3 mil. operationsProtection Level:IP65; NEMA 4x

Mounting Type: desktop

Dimensions: 482,6 x 177,8 x 48 mm

19" x 7" x 1.89"

Weight: 1400 g

Operating Temperature: -40 °C to +90 °C

-40 °F to +194 °F

Enclosure Material: polystyrene

Specification USB Port

Version: 1.1

Power Supply: 100mA (PC connection)

Protection Level: IP65; NEMA 4x

Specification Trackball

Ball Diameter: 38 mm / 1.5"

Actuation Force: 50 g

Trackball Lifetime: > 6 mil. revolutions

Protection Level: IP65 static;

IP54 dynamic; NEMA 3 (front)

CatNo.	Product Name	
KS15023	TKS-105a-TB38-MODUL-USBPORT-USB-US	USB; US-Layout
KS15001	TKS-105b-TB38-MODUL-USBPORT-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKS-104a-SCHUBL







- The compact-size versions in a 19" drawer with only 1 U height
- Bend angle of 15° (pulled out)

Specification

Number of Keys: 104

Keyswitch Technology: short travel keys
Actuation Force/ -Travel: 2.6 N / 0.3 mm
Keyswitch Lifetime: 3 mil. operations

Protection Level: IP65;

NEMA 4 (front)

Mounting Type: 19" rack mount

Dimensions: 482.6 x 43.5 x 280 mm

(19"; 1U)

19" x 1.71" x 11.02"

Weight: 5000 g

Operating Temperature: -40 °C to +90 °C

-40 °F to +194 °F

CatNo.	Product Name	
KS07426	TKS-104a-SCHUBL-PS/2-US	PS/2; US-Layout
KS09528	TKS-104a-SCHUBL-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		





TKS-088a-TOUCH-SCHUBL



- The compact-size versions in a 19" drawer with only 1 U height
- Bend angle of 15° (pulled out)



Specification

Number of Keys: 88

Dimensions: 482.6 x 43.5 x 280 mm

(19"; 1U)

19" x 1.71" x 11.02"

Operating Temperature: -40 °C to +90 °C

-40 °F to +194 °F

Basic Specification: see page 26

Specification Touchpad

CatNo.	Product Name	
KS07421	TKS-088a-TOUCH-SCHUBL-PS/2-US	PS/2; US-Layout
KS09530	TKS-088a-TOUCH-SCHUBL-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



Compact Short Travel Keyboards

TKS-030-KGEH





Number of Keys: 30

Keyswitch Technology: short travel keys Keyswitch Lifetime: 3 mil. operations

Protection Level: IP65;

NEMA 4x (front)

Mounting Type: desktop

Dimensions: 125 x 150 x 31 mm

4.92" x 5.9" x 1.22"

Weight: 400 g

Operating Temperature: 0 °C to 50 °C

32 °F to 122 °F

Enclosure material: polystyrene

CatNo.	Product Name	
KS07351	TKS-030-KGEH-PS/2-US	PS/2; US-Layout
KS07352	TKS-030-KGEH-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		

TKS-030-TOUCH-KGEH





Specification

Dimensions: 151 x 196 x 28 mm

5.94" x 7.7" x 1.1"

Weight: 400 g Basic Specification: see above

Specification Touchpad

Motion Detection Method: capacitive
Active Area: 60 x 44 mm

2.36" x 1.73"

CatNo.	Product Name	
KS09222	TKS-030-TOUCH-KGEH-PS/2-US	PS/2; US-Layout
KS14003	TKS-030-TOUCH-KGEH-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		

Compact Short Travel Keyboards





TKS-030/030b-MODUL

• The b-versions with protected foil edge

Specification

Number of Keys: 30

Keyswitch Technology: short travel keys
Actuation Force/-Travel: 2.6 N / 0.3 mm

Keyswitch Lifetime: 3 mil. operations

Protection Level: IP65; NEMA 4x (front)

Mounting Type: panel mount

Dimensions: -TKS-030...- 137.3 x 154 x 25 mm

5.40" x 6.06" x 0.98"

-TKS-030b...- 141 x 157 x 25 mm

5.55" x 6.18" x 0.98"

Weight: 260 g

Operating Temperature: 0 °C to 50 °C

32 °F to 122 °F

Frontpanel: aluminium

CatNo.	Product Name	
KS08461	TKS-030-MODUL-PS/2-US	PS/2; US-Layout
KS08466	TKS-030-MODUL-USB-US	USB; US-Layout
KS14028	TKS-030b-MODUL-PS/2-US	PS/2; US-Layout
KS14030	TKS-030b-MODUL-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		





TKS-030/030b-TOUCH-MODUL

• The b-versions with protected foil edge

Specification

Dimensions: -TKS-030...- 140 x 195 x 25 mm

5.51" x 7.67" x 0.98"

-TKS-030b...- 141 x 196 x 25 mm

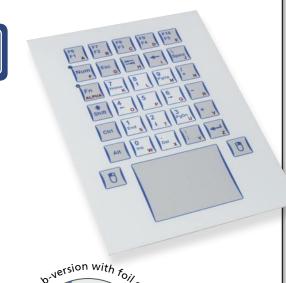
5.55" x 7.71" x 0.98"

Weight: 360 g
Basic Specification: see above

Specification Touchpad

Motion Detection Method: capacitive
Active Area: 60 x 44 mm
2.36" x 1.73"

CatNo.	Product Name	
KS02031	TKS-030-TOUCH-MODUL-PS/2-US PS/2; US-Layout	
KS14001	TKS-030-TOUCH-MODUL-USB-US USB; US-Layout	
KS14032	TKS-030b-TOUCH-MODUL-PS/2-US PS/2; US-Layout	
KS14034	TKS-030b-TOUCH-MODUL-USB-US USB; US-Layout	
Other language versions/interfaces/configuration available on request		





Compact Short Travel Keyboards

TKS-030-FP







 Numpad with F-keys contains front mounting drills for easy rack-mount integration

Specification

Number of Keys: 30

Keyswitch Technology: short travel keys
Keyswitch Lifetime: 3 mil. operations

Protection Level: IP65;

NEMA 4x (front)

Mounting Type: rack mount

Dimensions: 150 x 125 x 30 mm

5.9" x 4.92" x 1.18"

Weight: 400 g

Operating Temperature: 0 °C to 50 °C

32 °F to 122 °F

Enclosure material: polystyrene

CatNo.	Product Name	
KS08460	TKS-030-FP-PS/2-US	PS/2; US-Layout
KS08464	TKS-030-FP-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



Our Dome-Switch Keyboards are a low-cost alternative to the Short Travel Keyboards. They use a high quality gold-on-gold membrane key-switch technology where a gold metal dome is placed over a gold contact on a reinforced PCB. The keys are protected by a 150 µm thick wear and tear resistant Autotex Polyester frontsheet. The frontsheet is resistant to most industrial chemicals because of the "reverse printing technology". They are available in desktop, 19 inch rack-mount or panel-mount versions. Our Membrane Keyboards are sealed to IP65 and are available with trackball or capacitive touchpad. Interfaces available as PS/2 or USB. We offer semi or full customisation on all Membrane Keyboards.

Features and benefits:

- Gold-on-gold keys consisting of a gold metal dome on gold PCB-contact
- Positive tactile feedback and key embossing
- Integrated trackball, touchpad or joystick
- PS/2 and USB compatible
- 19 inch 1U drawer compatible units
- Desktop and panel-mount versions available
- Rugged construction for reliable functionality
- Chemical, abrasion and scratch resistant frontsheet
- Ergonomic design
- IP65 (NEMA 4x) sealing
- > 1 million operations per key
- Semi or full customisation available
- Activation force 3 N / key travel 0,55 mm
- Reinforced PCB (FR4- material) for mechanical stability
- Cost-effective
- Backlit versions available

TKF-085c-MGEH



InduStyle™





- Only 15.5 mm height
- Solid aluminium enclosure
- VESA-mounting available on request

Specification

Number of Keys: 85

Keyswitch Technology: gold-on-gold domes

Activation Force/ -Travel 3 N / 0.55 mm Keyswitch Lifetime: 2 mil. operations

Protection Level: IP65
Mounting Type: desktop

Dimensions: 261 x 116 x 15.5 mm

10.27" x 4.56" x 0.61"

Weight: 900 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Enclosure Material: milled solid aluminium

CatNo.	Product Name	
KF02061	TKF-085c-MGEH-PS/2-US	PS/2; US-Layout
KF02063	TKF-085c-MGEH-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



InduStyle™



TKF-085c-TOUCH-MGEH



- Only 15.5 mm height
- Solid aluminium enclosure
- VESA-mounting available on request
- With integrated touchpad



Specification

Number of Keys: 85

Keyswitch Technology: gold-on-gold domes
Activation Force/ -Travel 3 N / 0.55 mm
Keyswitch Lifetime: 2 mil. operations

Protection Level: IP65
Mounting Type: desktop

Dimensions: 335.5 x 116 x 15.5 mm

13.20" x 4.56" x 0.61"

Weight: 1100 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Enclosure Material: milled solid aluminium

Specification Touchpad

Motion Detection Method: capacitive Active Area: 23.6" x 17.3"

CatNo.	Product Name	
KF02067	TKF-085c-TOUCH-MGEH-PS/2-US	PS/2; US-Layout
KF02069	TKF-085c-TOUCH-MGEH-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		

TKF-085a-KGEH







- VESA-mounting available on request
- Very small dimensions

Specification

Number of Keys: 85

Keyswitch Technology: gold-on-gold domes

Actuation Force/Travel: 3 N / 0.55 mm

Keyswitch Lifetime: 2 mil. operations

Protection Level: IP65; NEMA 4x

Mounting Type: desktop

Dimensions: 275 x 139 x 35 mm

10.83" x 5.47" x 1.38"

Weight: 700 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Enclosure Material: polystyrene

CatNo.	Product Name	
KF08289	TKF-085a-KGEH-PS/2-US	PS/2; US-Layout
KF09451	TKF-085a-KGEH-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKF-085a-TB38-KGEH

BEBBBBBBBBBBBBBBB

CERCERCE SEEDELLE

TEBBERRE

• VESA-mounting available on request

Specification

Dimensions: 350 x 139 x 38 mm

13.78" x 5.47" x 1.5"

Weight: 700g

Basic Specification: see page 34

Specification Trackball

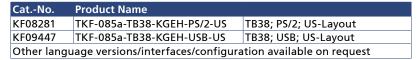
Ball Diameter: TB38: 38 mm (1.5")

Actuation Force: TB38: 50 g

Trackball Lifetime: > 6 mil. revolutions

Protection Level: IP65 static; NEMA 4x (front);

IP54 dynamic; NEMA 3/13





TKF-085a-TOUCH-KGEH



• VESA-mounting available on request

Specification

Dimensions: 350 x 139 x 38 mm

13.78" x 5.47" x 1.5"

Weight: 700 g

Basic Specification: see page 34

Specification Touchpad

capacitive Motion Detection Method: Active Area: 60 x 44 mm

CatNo.	Product Name	
KF08285	TKF-085a-TOUCH-KGEH-PS/2-US	PS/2; US-Layout
KF09449	TKF-085a-TOUCH-KGEH-USB-US	USB; US-Layout
Other land	uuage versions/interfaces/configura	tion available on request



TKF-085a-MODUL







 Very flat keyboard with rugged edge protection

Specification

Number of keys: 85

Keyswitch Technology: gold-on-gold-domes

Actuation Force/-Travel: 3 N / 0.55 mm Keyswitch Lifetime: 2 mil. operations

Protection Level: IP65;

NEMA 4x (front)

Mounting Type: panel mount Electronic Interface: PS/2, USB

Dimensions: 244 x 108 x 15 mm

9.60" x 4.25" x 0.59"

Weight: 375 g

Operating Temperature: -40 °C to +90 °C

-40 °F to +194 °F

Frontpanel Material: aluminium

CatNo.	Product Name	
KF08266	TKF-085a-MODUL-PS/2-US	PS/2; US-Layout
KF09433	TKF-085a-MODUL-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKF-085a-TB38-MODUL

TEER EFFE

OPPOPER

• Very flat keyboard with rugged edge protection



Specification

Ball Diameter: 38 mm (1.5")

Actuation Force: 50 g

Trackball Lifetime: > 6 mil. Revolutions

Protection Level: IP65 static; NEMA 4x (front);

IP54 dynamic; NEMA 3/13

Mounting Type: panel mount Electronic Interface: PS/2, USB

Dimensions: 365 x 135 x 30 mm

14.37" x 5.31" x 1.18"

Weight: 550 q

Operating Temperature: -40 °C to +90 °C

-40 °F to +194 °F

Frontpanel Material: aluminium **Basic Specification:** see page 36

CatNo.	Product Name	
KF08258	TKF-085a-TB38-MODUL-PS/2-US	PS/2; US-Layout
KF09439	TKF-085a-TB38-MODUL-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKF-085a-TOUCH-MODUL

• Very flat keyboard with rugged edge protection



Specification

Motion Detection Method: Capacitive Resolution: 40 counts / mm

Protection level: IP65; NEMA 4x (front)

Mounting Type: panel mount Electronic Interface: PS/2, USB

Dimensions: 365 x 135 x 20 mm

14.37" x 5.31" x 0.78"

Weight: 500 g

-40 °C to +90 °C Operating Temperature:

-40 °F to +194 °F

Frontpanel Material: aluminium **Basic Specification:** see page 36

CatNo.	Product Name	
KF08262	TKF-085a-TOUCH-MODUL-PS/2-US	PS/2; US-Layout
KF09443	TKF-085a-TOUCH-MODUL-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKF-085a-FP







 Very flat front panel keyboard with rugged edge protection

Specification

Number of keys: 85

Keyswitch Technology: gold-on-gold-domes

Actuation Force/-Travel: 3 N / 0.55 mm Keyswitch Lifetime: 2 mil. operations

Protection Level: IP65;

NEMA 4x (front)

Mounting Type: rack mount Electronic Interface: PS/2, USB

Dimensions: 244 x 108 x 15 mm

9.60" x 4.25" x 0.59"

Weight: 375 g

Operating Temperature: -40 °C to +90 °C

-40 °F to +194 °F

Frontpanel Material: aluminium

CatNo.	Product Name	
KF08231	TKF-085a-FP-PS/2-US	PS/2; US-Layout
KF09405	TKF-085a-FP-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKF-085a-TB38-FP

 Very flat front panel keyboard with rugged edge protection



Specification

Ball Diameter: 38 mm (1.5")

Actuation Force: 50 g

Trackball Lifetime: > 6 mil. Revolutions

Protection Level: IP65 static; NEMA 4x (front);

IP54 dynamic (NEMA 3/13)

Mounting Type: rack mount Electronic Interface: PS/2, USB

Dimensions: 365 x 135 x 30 mm

14.37" x 5.31" x 1.18"

Weight: 550 g

Operating Temperature: -40 °C to +90 °C

-40 °F to +194 °F

Frontpanel Material: aluminium
Basic Specification: see page 38

CatNo.	Product Name	
KF08248	TKF-085a-TB38-FP-PS/2-US	PS/2; US-Layout
KF09425	TKF-085a-TB38-FP-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKF-085a-TOUCH-FP

 Very flat front panel keyboard with rugged edge protection

Specification

Motion Detection Method: capacitive Resolution: 40 counts / mm

Protection level: IP65; NEMA 4x (front)

Mounting Type: rack mount Electronic Interface: PS/2, USB

Dimensions: 365 x 135 x 20 mm

14.37" x 5.31" x 0.78"

Weight: 500 g

Operating Temperature: -40 °C to +90 °C

-40 °F to +194 °F

Frontpanel Material: aluminium
Basic Specification: see page 38

CatNo.	Product Name	
KF08252	TKF-085a-TOUCH-FP-PS/2-US	PS/2; US-Layout
KF09429	TKF-085a-TOUCH-FP-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		





TKF-085b-MODUL





Specification

Number of Keys: 85

Keyswitch Technology: gold-on-gold domes

Actuation Force/Travel: 3 N / 0.55 mm

Keyswitch Lifetime: 2 mil. operations

Protection Level: IP65;

NEMA 4x (front)

Mounting Type: panel mount
Dimensions: 274 x 135 x 20 mm

10.78" x 5.31" x 0.78"

Weight: 400 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Frontpanel Material: PCB material, FR4

CatNo.	Product Name	
KF02001	TKF-085b-MODUL-PS/2-US	PS/2; US-Layout
KF02003	TKF-085b-MODUL-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKF-085b-TB38-MODUL

Specification

Number of Keys:

Keyswitch Technology: gold-on-gold domes

Actuation Force/-Travel: 3 N / 0.55 mm Keyswitch Lifetime: 2 mil. operations Protection Level: IP65; NEMA 4x (front)

Mounting Type panel mount **Dimensions:** 365 x 135 x 30 mm

14.37" x 5.31" x 1.18"

Weight: 450 g

-40 °C to 90 °C Operating Temperature:

-40 °F to +194 °F

Frontpanel Material: PCB-material, FR4

Specification Trackball: see page 37



CatNo.	Product Name	
KF02021	TKF-085b-TB38-MODUL-PS/2-US	PS/2; US-Layout
KF02023	TKF-085b-TB38-MODUL-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKF-085b-TOUCH-MODUL

Specification

Number of Keys:

Keyswitch Technology: gold-on-gold domes

Actuation Force/Travel: 3 N / 0.55 mm Keyswitch Lifetime: 2 mil. operations **Protection Level:** IP65; NEMA 4x (front)

Mounting Type: panel mount **Dimensions:**

365 x 135 x 20 mm

14.37" x 5.31" x 7.87"

Weight: 350 g

-40 °C to 90 °C Operating Temperature:

-40 °F to +194 °F

Frontpanel Material: PCB-material, FR4

Specification Touchpad: see page 37



CatNo.	Product Name	
KF02031	TKF-085b-TOUCH-MODUL-PS/2-US	PS/2; US-Layout
KF02033	TKF-085b-TOUCH-MODUL-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		

TKF-085b-FP







• InduKey's FP-series contains front mounting drills for easy rack-mount integration

Specification

Number of Keys: 85

Keyswitch Technology: gold-on-gold domes

Actuation Force/Travel: 3 N / 0.55 mm

Keyswitch Lifetime: 2 mil. operations

Protection Level: IP65; NEMA 4x (front)

Mounting Type: rack mount

Dimensions: 263.9 (52 U) x 128.4 (3U) x 20 mm

10.39" x 5.05" x 0.79"

Weight: 400 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Frontpanel Material: PCB material, FR4

CatNo.	Product Name	
KF02011	TKF-085b-FP-PS/2-US	PS/2; US-Layout
KF02013	TKF-085b-FP-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKF-085b-TB38-FP

Specification

Number of Keys: 85

Keyswitch Technology: gold-on-gold domes

Actuation Force/Travel: 3 N / 0.55 mm

Keyswitch Lifetime: 2 mil. operations

Protection Level: IP65; NEMA 4x (front)

Mounting Type: rack mount

Dimensions: 340.6 x 128.4 x 16 mm

13.4" x 5.05" x 0.62"

Weight: 400 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Frontpanel Material: PCB-material, FR4

Specification Trackball: see page 37



CatNo.	Product Name	
KF15001	TKF-085b-TB38-FP-PS/2-US	PS/2; US-Layout
KF15003	TKF-085b-TB38-FP-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKF-085b-TOUCH-FP

Specification

Number of Keys: 85

Keyswitch Technology: gold-on-gold domes

Actuation Force/Travel: 3 N / 0.55 mm

Keyswitch Lifetime: 2 mil. operations

Protection Level: IP65; NEMA 4x (front)

Mounting Type: rack mount

Dimensions: 340.6 x 128.4 x 16 mm

13.4" x 5.05" x 0.62"

Weight: 400 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Frontpanel Material: PCB-material, FR4

Specification Touchpad: see page 37



CatNo.	Product Name	
KF02041	TKF-085b-TOUCH-FP-PS/2-US	PS/2; US-Layout
KF02043	TKF-085b-TOUCH-FP-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		

TKF-085a-OEM







• Keyboard for flexible mounting by an adhesive backing

Specification

Number of Keys: 85

Keyswitch Technology: gold-on-gold domes

Actuation Force/-Travel: 3 N / 0.55 mm

Keyswitch Lifetime: 2 mil. operations

Protection Level: IP65; NEMA 4x (front)

Mounting Type: adhesive backing

Dimensions: 244 x 108 x 15 mm

9.60" x 4.25" x 0.59"

Weight: 300 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Frontpanel-Material: PCB material, FR4

CatNo.	Product Name	
KF08226	TKF-085a-OEM-PS/2-US	PS/2; US-Layout
KF13001	TKF-085a-OEM-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



Intrinsically Safe Keyboards

Intrinsically safe keyboards are ideal for systems that exist in potentially explosive environments. That does not only apply to the "classical" potentially explosive areas such as tank farms and mines, but to an increasing extent also to industrial environments. There are two possibilities for avoiding explosions – either to prevent the development of an explosive atmosphere or to prevent the ignition of such an atmosphere. Often it is not possible to eliminate an explosive atmosphere. Consequently, the ignition of such an explosive mixture must be avoided. For this, any devices that are applied in potentially explosive environments and that may pose a potential source of ignition must be constructed in such a way that an ignition is made impossible.



TKS-105a-EX-MGEH







- EX-approval II 2G, EEx ib IIC T4, DMT 01 ATEX E 177
- Available in stainless-steel enclosure or aluminium front panel
- Power supply unit always necessary to fulfil the EX-approvals
- For use in Hazardous Areas

Specification

Number of Keys: 105

Keyswitch Technology: short travel keys
Actuation Force/-Travel: 2.6 N / 0.3 mm
Keyswitch Lifetime: 3 mil. operations

Protection Level: IP65; NEMA 4x (frontside)

Mounting Type: desktop

Electronic Interface: PS/2 (Power supply unit)

Dimensions: 508 x 213 x 52 mm

20" x 8.38" x 2.05"

Weight: 5700 g

Operating Temperature: 0 °C to +50 °C

32 °F to 122 °F

Frontplate Material: aluminium Enclosure Material: stainless steel

CatNo.	Product Name	
KS02011	TKS-105-EX-MGEH-US	Enclosed version; US-Layout
KA09210	TKA-EX-VERSORGUNG-TKS	Barrier (Power Supply Unit)
Other language versions/interfaces/configuration available on request		





TKS-105a-EX-TB50-MGEH

- EX-approval II 2G, EEx ib IIC T4, DMT 01 ATEX E 177
- Stainless-steel enclosure
- Power supply unit always necessary to fulfil the EX-approvals
- For use in Hazardous Areas



Specification

KS02013

Dimensions: 508 x 213 x 52 mm

20" x 8.38" x 2.05"

Weight: 6000 g **Basic Specification:** see page 46

Specification Trackball

Ball Diameter: 50 mm / 2"

Actuation Force: 50 g

Product Name

Trackball Lifetime: > 6 mil. revolutions

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TKA-EX-VERSORGUNG-TKS (Power Supply Unit)



TKS-105-EX-TB50-MGEH-US





Enclosed version; US-L

TKS-105a-EX-TOUCH-MGEH

- EX-approval II 2G, EEx ib IIC T4, DMT 01 ATEX E 177
- Available in stainless-steel enclosure or aluminium front panel
- Power supply unit always necessary to fulfil the EX-approvals
- For use in Hazardous Areas



Specification

Dimensions: 508 x 213 x 52 mm

20" x 8.38" x 2.05"

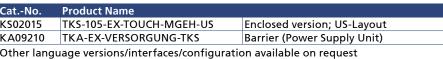
Weight: 5800 g **Basic Specification:** see page 46

Specification Touchpad

Motion Detection Method: capacitive Resolution: 40 counts / mm

CatNo.	Product Name	
KS02015	TKS-105-EX-TOUCH-MGEH-US	Enclosed version; US-Layout
KA09210	TKA-EX-VERSORGUNG-TKS	Barrier (Power Supply Unit)
Other language versions/interfaces/configuration available on request		

TKA-EX-VERSORGUNG-TKS (Power Supply Unit)





TKS-105a-EX-MODUL







TKA-EX-VERSORGUNG-TKS (Power Supply Unit)



- EX-approval II 2G, EEx ib IIC T4, DMT 01 ATEX E 177
- Power supply unit always necessary to fulfil the EX-approvals
- For use in Hazardous Areas

Specification

Number of Keys: 105

Keyswitch Technology: short travel keys
Actuation Force/-Travel: 2.6 N / 0.3 mm
Keyswitch Lifetime: 3 mil. operations

Protection Level: IP65; NEMA 4x (frontside)

Mounting Type: panel mount

Electronic Interface: PS/2 (Power supply unit)
Dimensions: 482.6 x 177.8 x 15 mm

19" x 7" x 0.59"

Weight: 1500 g

Operating Temperature: 0 °C to +50 °C

32 °F to 122 °F

Frontplate Material: aluminium

CatNo.	Product Name	
KS09216	TKS-105-EX-MODUL-US	Panel version; US-Layout
KA09210	TKA-EX-VERSORGUNG-TKS	Barrier (Power Supply Unit)
Other language versions/interfaces/configuration available on request		





TKS-105a-EX-TB50-MODUL

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- EX-approval II 2G, EEx ib IIC T4, DMT 01 ATEX E 177
- Power supply unit always necessary to fulfil the EX-approvals
- For use in Hazardous Areas



Specification

Dimensions: 482.6 x 177.8 x 54 mm

19" x 7" x 2.125"

Weight: 1900 g
Basic Specification: see page 48

Specification Trackball

Ball Diameter: 50 mm / 2"

Actuation Force: 50 g

Trackball Lifetime: > 6 mil. revolutions

CatNo.	Product Name	
KS09220	TKS-105-EX-TB50-MODUL-US	Panel version; US-Layout
KA09210	TKA-EX-VERSORGUNG-TKS	Barrier (Power Supply Unit)
Other language versions/interfaces/configuration available on request		



TKA-EX-VERSORGUNG-TKS (Power Supply Unit)





TKS-105a-EX-TOUCH-MODUL

DEED GOOD GOOD

- EX-approval II 2G, EEx ib IIC T4, DMT 01 ATEX E 177
- Power supply unit always necessary to fulfil the EX-approvals
- For use in Hazardous Areas



Specification

Dimensions: 482,6 x 177,8 x 23 mm

19" x 7" x 0.905"

Weight: 1400 g
Basic Specification: see page 48

Specification Touchpad

Motion Detection Method: capacitive Resolution: 40 counts / mm

CatNo.	Product Name	
KS09218	TKS-105-EX-TOUCH-MODUL-US	Panel version; US-Layout
KA09210	TKA-EX-VERSORGUNG-TKS	Barrier (Power Supply Unit)
Other language versions/interfaces/configuration available on request		



TKA-EX-VERSORGUNG-TKS (Power Supply Unit)



TKG-105-EX-IP68-GREY





TKH-MAUS-EX-IP68-GREY-OPT





- Keyboard Ex-approval II 2 G EEx ia IIC T4 / II 2D T79°C IP68
- Mouse Ex-approval II 2 G EEx ia IIC T4 / II 2D T65°C IP68
- Power supply unit always necessary to fulfil the EX-approvals
- IP69k sealed
- For use in Hazardous Areas

Specification Keyboard

Number of keys: 105

Keyswitch Technology: short travel keys
Actuation Force/ -Travel: 3.0 N / 0.3 mm
Keyswitch Lifetime: 3 mil operations
Protection Level: IP69k; NEMA 6 + 6P

Mounting Type: desktop Electronic Interface: PS/2

Dimensions: 387 x 150 x 20 mm

15.24" x 5.90" x 0.79"

Weight: 1400 g

Operation Temperature: -20 °C to +50 °C

-4 °F to +122 °F

Enclosure Material: silicone;

aluminium (rear side)

Specification Mouse

Number of keys: 2
Motion detection method: optical
Resolution: 800 dpi

Protection level: IP69k; NEMA 6 + 6P

Electronic Interface: PS/2

Dimensions: 127 x 63 x 33 mm

5" x 2.48" x 1.3"

Weight: 200 g

Operation Temperature: -20 °C to +50 °C

-4 °F to +122 °F

Enclosure Material: silicone,

aluminium (rear side)

CatNo.	Product Name	
KG14046	TKG-105-EX-IP68-GREY-PS/2-US	PS/2; US-Layout
KH14001	TKH-MAUS-EX-IP68-GREY-OPT-PS/2	PS/2
KA08201	TKA-INTERFACE-EX	Barrier (Power Supply Unit)
Other language versions/interfaces/configuration available on request		



IP68-Keyboards and Mice

These keyboards have been developed for industries where ease of cleaning or disinfecting is a must, e.g. medical, pharmaceutical, chemical and food manufacturing industries, as the rounded keytops of the InduProof² are easy to clean. The keyboards have a wear and tear resistant silicone surfacae with special Dura-coating for excellent mechanical and chemical resistance. The silicone mat is glued to a 3 mm thick aluminium base plate creating an IP68 protection. High quality switches assure accurate and tactile data input. The keyboards and mice are sealed to IP68 which means they can be submerged in up to 3 meters of liquid. Due to the functionality within an extreme temperature range of -40°C to +90°C the keyboards and mice a must in any hygiene critical medical environment. The mouse shows the same construction quality and can be used on almost any surface thanks to its reliable optical engine. The keyboards and mice are available in grey and black.

Features and benefits:

- OMRON mechanical switches (InduProof, InduProof²)
- Gold-on-Gold Domes (InduProof³)
- Carbon-on-gold-contact (InduProof^{med})
- Extreme temperature range of -40°C to +90°C
- Positive tactile feedback
- Integrated mouse button or separate optical mouse
- Antimicrobial surface
- 19 inch drawer compatible units
- Rugged construction for reliable functionality
- Special Dura-coating for excellent mechanical and chemical resistance
- Ergonomic design
- IP68 sealing, can be submerged in liquid
- Semi or full customisation available
- Backlit versions available



TKG-105-MED-IP68



InduProof med™





- An antimicrobial agent inhibits the growth of germs
- Completely clean- and disinfectable
- The keys are easy to press

Specification Keyboard

Number of keys: 105

Keyswitch Technology: carbon-on-gold-contact

Actuation Force/ -Travel: 2 N / 1.0 mm

Keyswitch Lifetime: 5 mil operations

Protection Level: IP68; NEMA 6P

Mounting Type: desktop

Dimensions: 385 x 160 x 20 mm

15.10" x 6.3" x 0.79"

Weight: 1600 g

Operating Temperature: -40 °C to +90 °C

-40 °F to +194 °F

Enclosure Material: silicone

Enclosure Colour: -BLACK- similar RAL9017

-GREY- similar RAL9002

CatNo.	Product Name	
KG14011	TKG-105-MED-IP68-GREY-PS/2-US	PS/2; US-Layout
KG14013	TKG-105-MED-IP68-GREY-USB-US	USB; US-Layout
KG15001	TKG-105-MED-IP68-BLACK-PS/2-US	PS/2; US-Layout
KG15003	TKG-105-MED-IP68-BLACK-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		





TKH-MAUS-MED-IP68

InduMouse med™



- An antimicrobial agent inhibits the growth of germs
- Completely clean- and disinfectable



Specification Mouse

Number of keys: 2
Motion detection method: optical
Resolution: 800 dpi

Protection level: IP68; NEMA 6P
Dimensions: 127 x 63 x 33 mm

5" x 2.48" x 1.3"

Weight: 200 g

Operating Temperature: -40 °C to +90 °C

-40 °F to +194 °F

Enclosure Material: silicone;

aluminium (rear side)

(rear side)

Enclosure Colour: -GREY- similar RAL9002

-BLACK- similar RAL9017

CatNo.	Product Name	
KH14007	TKH-MOUSE-MED-IP68-GREY-OPT-PS/2	PS/2
KH14008	TKH-MOUSE-MED-IP68-GREY-OPT-USB	USB
KH15001	TKH-MOUSE-MED-IP68-BLACK-OPT-PS/2	PS/2
KH15002	TKH-MOUSE-MED-IP68-BLACK-OPT-USB	USB
Other interfaces/configuration available on request		



TKG-086-MB-IP68



InduProof^{3™}





- Easy to clean and disinfect
- With integrated Mousebutton
- Vesa mounting available on request

Specification Keyboard

Number of Keys: 86

Keyswitch Technology:gold-on-gold domesActivation Force/ -Travel:3.5 N / 0.35 mmKeyswitch Lifetime:2 mil operationsProtection Level:IP68; NEMA 6P

Mounting Type: desktop

Dimensions: 320 x 145 x 20 mm

12.6" x 5.71" x 0.79"

Weight: 950 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Enclosure Colour: -GREY: similar RAL9002

-BLACK: similar RAL9017

Cursor motion detection: hall sensor Resolution: 800 dpi

CatNo.	Product Name	
KG13001	TKG-086-MB-IP68-GREY-PS/2-US	PS/2; US-Layout
KG13003	TKG-086-MB-IP68-GREY-USB-US	USB; US-Layout
KG13005	TKG-086-MB-IP68-BLACK-PS/2-US	PS/2; US-Layout
KG13007	TKG-086-MB-IP68-BLACK-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		







TKG-086-MB-IP68-BACKL

InduProof^{3™}



- LED powered backlight function with 8-level dimmer
- Long LED lifetime and low power consumption
- With integrated Mousebutton
- Vesa mounting available on request



Specification Keyboard

Number of Keys: 86

Keyswitch Technology:gold-on-gold domesActivation Force/ -Travel:5.5 N / 0.35 mmKeyswitch Lifetime:2 mil operationsProtection Level:IP68; NEMA 6P

Mounting Type: desktop

Dimensions: 320 x 145 x 20 mm

12.6" x 5.71" x 0.79"

Weight: 950 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Enclosure Colour: -BLACK: similar RAL9017
Cursor motion detection: hall sensor
Resolution: 800 dpi

CatNo.	Product Name	
KG13009	TKG-086-MB-IP68-BACKL-PS/2-US	BACKLIGHT; PS/2; US-Layout
KG13011	TKG-086-MB-IP68-BACKL-USB-US	BACKLIGHT; USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKG-105-IP68-GREY/BLACK



InduProof^{2™}





- Complete MFII-Layout
- VESA-mounting available on request

Specification Keyboard

Number of Keys: 105

Keyswitch Technology: short travel switches
Activation Force/ -Travel: 3.0 N / 0.35 mm

Keyswitch Lifetime: 3 mil. operations
Protection Level: IP68; NEMA 6P

Mounting Type: desktop

Dimensions: 387 x 150 x 20 mm

15.24" x 5.90" x 0.79"

Weight: 1400 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Enclosure Colour: -GREY: similar RAL9002

-BLACK: similar RAL9017

CatNo.	Product Name	
KG02003	TKG-105-IP68-GREY-PS/2-US	grey; PS/2; US Layout
KG02005	TKG-105-IP68-GREY-USB-US	grey; USB; US Layout
KG02434	TKG-105-IP68-BLACK-PS/2-US	black; PS/2; US Layout
KG02435	TKG-105-IP68-BLACK-USB-US	black; USB; US-Layout
Other language versions/interfaces/configuration available on request		





TKH-MOUSE-IP68-GREY/BLACK

InduMouse™



- Dura coating for excellent mechanical and chemical resistance
- Completely sealed
- Rugged construction



Specification Mouse

Number of keys: 2

Motion detection method: optical Resolution: 800 dpi

Protection Level: IP68; NEMA 6P Dimensions: 127 x 63 x 33 mm 5" x 2.48" x 1.3"

Operating Temperature: $-40 \,^{\circ}\text{C}$ to $90 \,^{\circ}\text{C}$ $-40 \,^{\circ}\text{F}$ to $+194 \,^{\circ}\text{F}$

Weight: 200 g

Enclosure Colour: -GREY: similar RAL9002

-BLACK: similar RAL9017

CatNo.	Product Name	
KH01220	TKH-MOUSE-IP68-GREY-OPT-PS/2	PS/2; grey
KH01221	TKH-MOUSE-IP68-GREY-OPT-USB	USB; grey
KH02410	TKH-MOUSE-IP68-BLACK-OPT-PS/2	PS/2; black
KH02408	TKH-MOUSE-IP68-BLACK-OPT-USB	USB; black
Other interfaces/configuration available on request		



TKG-105-MB-IP68



InduProof™





- VESA-mounting available on request
- Integrated Mousebutton

Specification Keyboard

Number of Keys: 105 + 2 Mouse buttons

Keyswitch Technology: short travel keys
Actuation Force/ Travel: 3.0 N / 0.35 mm
Keyswitch Lifetime: 3 mil. operations
Protection Level: IP68; NEMA 6P

Mounting Type: desktop

Dimensions: 387 x 145 x 28 mm

15.236" x 5.708" x 1.102"

Weight: 1500 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Specification Mousebutton

Motion Detection Method: pressure mouse sensor

Protection Level: IP68; NEMA 6P
Enclosure Colour: -GREY: similar RAL9002
-BLACK: similar RAL9017

CatNo.	Product Name	
KG09203	TKG-105-MB-IP68-PS/2-US	PS/2; US Layout
KG09205	TKG-105-MB-IP68-USB-US	USB; US Layout
KG01416	TKG-105-MB-IP68-BLACK-PS/2-US	PS/2; US Layout
KG01418	TKG-105-MB-IP68-BLACK-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



Vandal Proof Stainless Steel Keyboards

These Stainless Steel Keyboards have been specially developed for the POI and heavy industrial markets. The stainless steel front plate and key caps protect the internal electronics from vandalism and heavy impact. A silicone membrane between the keycaps and the silicone switching elements prevents any ingress from liquid and dust and is sealed up to IP65 standards. In addition, the keyboard is also available with either a 25 mm respectively 38 mm stainless steel trackball or capacitive touchpad. The trackball is sealed to IP65 standards when static and IP54 when in motion. All legends are laser etched into the key caps which guarantees high wear and tear resistance.

Features and benefits:

- Robust and durable
- Silicone switching elements
- 25 or 38 mm stainless steel integrated trackball or touchpad available
- Black resin trackball available on request
- PS/2 and USB compatible
- Panel-mount version with mounting studs on rear side
- Laser engraved key legends for excellent durability
- Non removable keycaps
- High operating comfort and good tactile feedback
- IP65 (NEMA 4x) sealing, water and dust proof
- >10 million operations per key
- Activation force 1 N / key travel 1.5 mm
- Semi or full customisation available



TKV-105-TB38V-MODUL

InduSteel3™





- MFII-layout with integrated 38mm-trackball
- Ergonomical keytops

Specification

Number of Keys: 105

Keyswitch Technology: silicone switching element

Actuation Force/ -Travel: 1 N / 1.5 mm

Keyswitch Lifetime: 10 mil operations

Protection Level: IP65; NEMA 4x

Mounting Type: panel mount

Electronic Interface: PS/2; USB

Dimensions: 446 x 145 x 36 mm

18.89" x 7.16" x 1.42"

Weight: 2650 g

Operating Temperature: -40 °C to +90 °C

-40 °F to +194 °F

Frontplate Material: stainless steel

Specification Trackball

Ball Diameter: 38 mm (1.5")

Actuation Force: 65 g

Trackball Lifetime: > 6 mil. revolutions
Protection Level: IP65 static; NEMA 4x;

IP54 dynamic (NEMA 3/13)

CatNo.	Product Name	
KV14006	TKV-105-TB38V-MODUL-PS/2-US	PS/2; US-Layout
KV14008	TKV-105-TB38V-MODUL-USB-US	USB; US-Layout
KY14205	TKV-105-TB38V-MODUL-GASKET	Gasket
Other language versions/interfaces/configuration available on request		



TKV-068-TB38V-MODUL

InduSteel^{2™}



Kiosk designed web- and e-mail-hot keys



Specification

Number of Keys: 68

Keyswitch Technology: silicone switching element

Actuation Force/-Travel: 1 N / 1.5 mm

Keyswitch Lifetime: 10 mil. operations
Protection Level: IP65; NEMA 4x
Mounting Type: panel mount
Electronic Interface: PS/2; USB

Dimensions: 375 x 125 x 33 mm

14.76" x 4.92" x 1.3"

Weight: 1600 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Frontplate Material: stainless steel

Specification Trackball

Ball Diameter: 38 mm (1.5")

Actuation Force: 65 g

Protection Level: IP65 static; NEMA 4x;

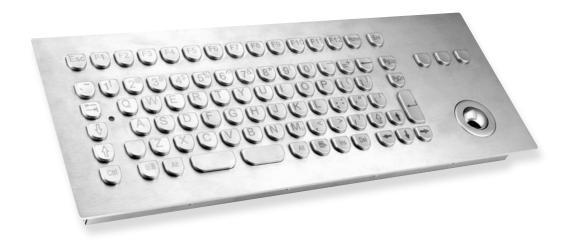
IP54 dynamic (NEMA 3/13)

CatNo.	Product Name	
KV03001	TKV-068-TB38V-MODUL-PS/2-US	PS/2; US-Layout
KV03003	TKV-068-TB38V-MODUL-USB-US	USB; US-Layout
KY13003	TKY-068-TB38V-MODUL-GASKET	Gasket
Other language versions/interfaces/configuration available on request		



TKV-084-TB25V-MODUL

InduSteel™





• Compact dimensions for space saving applications

Specification

Number of Keys: 84

Keyswitch Technology: silicone switching element

Actuation Force/-Travel: 1 N / 1.5 mm Keyswitch Lifetime: 10 mil. operations **Protection Level:** IP65; NEMA 4x Mounting Type: panel mount Dimensions: 385 x 145 x 33 mm

15.15" x 5.70" x 1.3"

Weight: 1700 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Frontplate Material: stainless steel

Specification Trackball

Ball Diameter: 25 mm; 0.98"

Actuation Force: 65 g

Protection Level: IP65 static (NEMA 4x);

IP54 dynamic (NEMA 3/13)

CatNo.	Product Name	
KV01211	TKV-084-TB25V-MODUL-PS/2-US	PS/2; US-Layout
KV01217	TKV-084-TB25V-MODUL-USB-US	USB; US-Layout
KY13001	TKY-084-TB25V-MODUL-GASKET	Gasket
Other language versions/interfaces/configuration available on request		





TKV-084-TOUCH-MODUL

InduSteel™



Metal keyboard with integrated touchpad



Specification

Number of Keys: 84

Keyswitch Technology: silicone switching element

Actuation Force/-Travel: 1 N / 1.5 mm

Keyswitch Lifetime: 10 mil. operations
Protection Level: IP65; NEMA 4x
Mounting Type: panel mount

Dimensions: 385 x 145 x 30 mm;

15.15" x 5.71" x 1.18"

Weight: 2000 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Frontplate Material: stainless steel

Specification Touchpad

Motion Detection Method: capacitive Active Area: 60 x 44 mm

2.36" x 1.73"

Protection Level: IP65; NEMA 4x

CatNo.	Product Name	
KV13001	TKV-084-TOUCH-MODUL-PS/2-US	PS/2; US-Layout
KV13003	TKV-084-TOUCH-MODUL-USB-US	USB; US-Layout
KY13004	TKY-084-TOUCH-MODUL-GASKET	Gasket
Other language versions/interfaces/configuration available on request		



TKV-084-MODUL



InduSteel™

Specification

Number of Keys: 84

Keyswitch Technology: silicone switching

element

Actuation Force/-Travel: 1 N / 1.5 mm 10 mil. operations Keyswitch Lifetime: Protection Level: IP65; NEMA 4x Mounting Type: panel mount Dimensions: 295 x 145 x 30 mm

11.61" x 5.71" x 1.18"

1700 q Weight:

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Frontplate Material: stainless steel

CatNo.	Product Name	
KV01209	TKV-084-MODUL-PS/2-US	PS/2; US-Layout
KV01215	TKV-084-MODUL-USB-US	USB; US-Layout
KY13000	TKY-084-MODUL-GASKET	Gasket
Other language versions/interfaces/configuration avai- lable on request		

TKV-068-MODUL



InduSteel^{2™}

Specification

Number of Keys: 68

Keyswitch Technology: silicone switching

element

Actuation Force/-Travel: 1 N / 1.5 mm Keyswitch Lifetime: 10 mil. operations Protection Level: IP65; NEMA 4x Mounting Type: panel mount Dimensions: 300 x 125 x 26 mm

11.81" x 4.92" x 1.02"

1600 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

stainless steel



CatNo.	Product Name	
KV03005	TKV-068-MODUL-PS/2-US	PS/2; US-Layout
KV03007	TKV-068-MODUL-USB-US	USB; US-Layout
KY13002	TKY-068-MODUL-GASKET	Gasket
Other language versions/interfaces/configuration available on request		



Silicone Keyboards

The TKS-083-Serie comes in two models: powder coated aluminium frontplate with silicone keys or anodized aluminium frontplate with metal coated silicone keys. Based on carbon-on-gold switching technology, these keyboards can be used in many different industries from laboratories to POI to noise sensitive environments. These ultra quiet keyboards allow multiple users to simultaneously use the keyboards where noise levels are required to be kept to a minimum. The anodized aluminium version with metal coated keys will aesthetically compliment any POI system and is strong enough to withstand heavy use. The keyboards are sealed to IP65 standards and are available as panel-mount or desktop. Pointing device options include 38 mm trackball or touchpad. We offer semi or full customisation on these keyboards.

Features and benefits:

- Carbon-on-gold switching elements
- Positive tactile feedback
- Integrated trackball or touchpad
- PS/2 and USB compatible
- Desktop or panel mount versions available
- Special Dura-coating on keys for excellent mechanical and chemical resistance
- Ergonomic design
- IP65 sealing, water and dust proof
- 10 million operations per key
- Semi- or full customisation available
- Activation force 1.2 N / key travel 1.2 mm
- Silver version is a low cost alternative for stainless steel keyboards



TKG-083-MODUL-SILVER







- The low-cost alternative for a stainless steel keyboard
- Metal look finish

Specification

Number of Keys: 83

Keyswitch Technology: carbon-on-gold contact

Actuation Force/-Travel: 1.2 N / 1.2 mm

Keyswitch Lifetime: 5 mil. operations

Protection Level: IP65; NEMA 4x (front)

Mounting Type: panel mount

Dimensions: 305 x 134 x 10 mm

12" x 5.28" x 0.39"

Weight: 500 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Frontplate Material: aluminium (anodized)

CatNo.	Product Name	
KG00201	TKG-083-MODUL-SILVER-PS/2-US	PS/2; US-Layout
KG00203	TKG-083-MODUL-SILVER-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKG-083-TB38-MODUL-SILVER

Specification

Dimensions: 405 x 135 x 45 mm

15.94" x 5.31" 1.77"

Weight: 650 g

Basic Specification see page 66

Specification Trackball

Ball Diameter: 38 mm (1.5")

Actuation Force: 50 g

Trackball Lifetime: > 6 mil. revolutions

Protection Level: IP65 static;

IP54 dynamic; NEMA 3



CatNo.	Product Name	
KG00205	TKG-083-TB38-MODUL-SILVER	PS/2; US-Layout
KG00207	TKG-083-TB38-MODUL-SILVER	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKG-083-TOUCH-MODUL-SILVER

Specification

Dimensions: 405 x 135 x 15 mm

15.94" x 5.31" x 0.59"

Weight: 550 g

Basic Specification: see page 66

Specification Touchpad

Motion Detection Method: capacitive
Active Area: 60 x 44 mm

2.36" x 1.73"



CatNo.	Product Name	
KG00209	TKG-083-TOUCH-MODUL-SILVER	PS/2; US-Layout
KG00211	TKG-083-TOUCH-MODUL-SILVER	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKG-083b-MGEH









- Robust stainless steel enclosure
- VESA-mounting available on request

Specification

Number of Keys: 83

Keyswitch Technology: carbon-on-gold-contact

Actuation Force/Travel: 1.2 N / 1.2 mm

Keyswitch Lifetime: 5 mil. operations

Protection Level: IP65; NEMA 4x

Mounting Type: panel mount

Dimensions: 345 x 190 x 50 mm

13.58" x 7.48" x 1.97"

Weight: 1900 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Front Material: aluminium Enclosure Material: stainless steel

CatNo.	Product Name	
KG15005	TKG-083b-MGEH-PS/2-US	PS/2; US-Layout
KG15007	TKG-083b-MGEH-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKG-083b-TB38-MGEH

- Robust stainless steel enclosure
- VESA-mounting available on request



Specification

Ball Diameter: 38 mm; 1.5"

Actuation Force: 50 g

Protection Level: IP65 static;

IP54 dynamic; NEMA3

Dimensions: 435 x 165 x 62 mm

17.13" x 6.5" x 2.44"

Weight: 2350 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Enclosure Material: stainless steel **Basic Specification:** see page 68

CatNo.	Product Name	
KG14031	TKG-083b-TB38-MGEH-PS/2-US	PS/2; US-Layout
KG14033	TKG-083b-TB38-MGEH-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKG-083b-TOUCH-MGEH

- Robust stainless steel enclosure
- VESA-mounting available on request



Specification

Motion Detection Method: capacitive Resolution: 40 counts / mm

Protection Level: IP65;

NEMA 4x (frontside)

Dimensions: 435 x 165 x 44 mm

17.13" x 6.5" x 1.73"

Weight: 2250 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Enclosure Material: stainless steel **Basic Specification:** see page 68

CatNo.	Product Name	
KG14035	TKG-083b-TOUCH-MGEH-PS/2-US	PS/2; US-Layout
KG14037	TKG-083b-TOUCH-MGEH-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		





TKG-083b-MODUL





Specification

Number of Keys: 83

Keyswitch Technology: carbon-on-gold-contact

Actuation Force/Travel: 1.2 N / 1.2 mm

Keyswitch Lifetime: 5 mil. operations

Protection Level: IP65; NEMA 4x

Mounting Type: panel mount

Dimensions: 305 x 134 x 10 mm

12" x 5.28" x 0.39"

Weight: 500 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Front Material: aluminium

CatNo.	Product Name	
KG14015	TKG-083b-MODUL-PS/2-US	PS/2; US-Layout
KG14017	G14017 TKG-083b-MODUL-USB-US USB; US-Layout	
Other language versions/interfaces/configuration available on request		



TKG-083b-TB38-MODUL

Specification

Dimensions: 405 x 135 x 45 mm

15.94" x 5.31" x 1.77"

Weight: 650g

Basic Specification: see page 70

Specification Trackball

Ball Diameter: 38 mm; 1.5"

Actuation Force: 50 g



CatNo.	Product Name	
KG14023	TKG-083b-TB38-MODUL-PS/2-US	PS/2; US-Layout
KG14025	TKG-083b-TB38-MODUL-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKG-083b-TOUCH-MODUL

Specification

Dimensions: 405 x 135 x 15 mm

15.94" x 5.31" x 0.59"

Weight: 550 g

Basic Specification: see page 70

Specification Touchpad

Motion Detection Method: capacitive
Resolution: 40 counts / mm

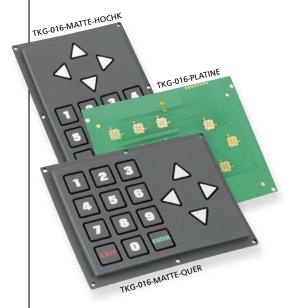


CatNo.	Product Name	
KG14027	TKG-083b-TOUCH-MODUL-PS/2-US	PS/2; US-Layout
KG14029	TKG-083b-TOUCH-MODUL-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



TKG-016





Specification

Keyswitch Technology: carbon-on-gold contact Protection Level: IP 65; NEMA 4x (front)

Dimensions: 128 x 98 x 6 mm

5.04" x 3.86" x 0.24"

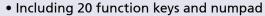
Operating Temperature: 0 °C to 50 °C

32 °F to 122 °F

Weight: 200 g

CatNo.	Product Name	
KG01102	TKG-016-MATTE-QUER	Silicone keypad, across
KG02102	TKG-016-MATTE-HOCHK	Silicone keypad, upright
KG01104	TKG-016-PLATINE	PCB with Matrix
Extensions to an AT-PS/2-compatible system:		
KC05000	TKC-5000-AT	Keybcontroller, AT-compatible
KP05023	PROGR-5000-5023-TKG-016-QUER	Program for TKG-016-QUER
KP05014	PROGR-5000-5014-TKG-016-HOCHK	Program for TKG-016-HOCHK
KA05023	TKA-5023-2102	Adaptor-PCB for TKG-016
KK00101	TKK-101	Connection KG1104> KC5000
KK05400	TKK-5400-PS/2	PS/2-Cable

TKG-113-MB-PAD/PCB-BLACK



• Integrated mousebutton

• USB/PS2-combi controller







Specification

Number of keys: 113 (incl. 20 function keys) Keyswitch Technology: carbon-on-gold-contact

Actuation Force/-Travel: 2 N / 2.5 mm

Keyswitch Lifetime: 5 mil. operations

Protection Level: IP65; NEMA 4x

Mounting Type: backpanel mount

Electronic Interface: PS/2, USB

Dimensions: 380 x 165 x 19 mm 15" x 6.5" x 0.75"

Weight: 300 g (pad); 275 g (pcb)

Operating Temperature: -40 °C to +90 °C

-40 °F to +194 °F

CatNo.	Product Name	
KG13218	TKG-113-MB-PAD-BLACK-US	Keypad; US-Layout
KG13219	TKG-113-MB-PCB-BLACK-USB/PS2-US	PCB; USB/PS2; US-Layout
KK06810	TKK-6810-USB	USB connection cable
KK14204	TKK-14204-PS/2	PS/2 connection cable
Other language versions/interfaces/configuration available on request		



Cursor Control Devices

In this section InduKey® provides different models of cursor control devices. Besides our reliable InduMouse we are offering the InduMouse series with an antimicrobial surface coating, such as the InduMouse^{med} which is ideally suited for applications in hygiene sensitive environments.

InduKey® also offers 38 mm (1.5") and 50 mm trackballs (2") as well as capacitive touchpads for many kinds of industrial applications.

Features and benefits:

- Dura coating for excellent mechanical and chemical resistance
- IP68 optical Mouse available with antimicrobial surface coating
- Rugged construction
- 38 mm-Trackball (1.5") available as modul or front panel version
- 50 mm-Trackball (2") as front panel version
- Capacitive Touchpad available as modul or front panel version
- PS/2 and USB compatible



TKH-MOUSE-MED-IP68



- Inhibits the growth of germs
- IP68-sealed







InduMouse^{med™}

Specification Mouse

Number of keys: Motion detection method: optical Resolution: 800 dpi

Protection level: IP68; NEMA 6P Dimensions: 127 x 63 x 33 mm

5" x 2.48" x 1.3"

Weight: 200 g

-40 °C to +90 °C Operating Temperature:

-40 °F to +194 °F

Enclosure Material: silicone; aluminium

(rear side)

Enclosure Colour: -GREY: similar RAL9002

-BLACK: similar RAL9017

CatNo.	Product Name	
KH14007	TKH-MOUSE-MED-IP68-GREY-OPT-PS/2	grey; PS/2
KH14008	TKH-MOUSE-MED-IP68-GREY-OPT-USB	grey; USB
KH15001	TKH-MOUSE-MED-IP68-BLACK-OPT-PS/2	black; PS/2
KH15002	TKH-MOUSE-MED-IP68-BLACK-OPT-USB	black; USB
Other interfaces/configuration available on request		

TKH-MOUSE-IP68-GREY/BLACK



- IP68-sealed
- Rugged construction



InduMouse™

Specification Mouse

Number of keys: 2

Motion detection method: optical Resolution: 1qb 008

Protection Level: IP68; NEMA 6P Dimensions: 127 x 63 x 33 mm 5" x 2.48" x 1.3"

-40 °C to 90 °C

Operating Temperature:

-40 °F to +194 °F

Weight: 200 q

Enclosure Material: silicone; aluminium

(rear side)

Enclosure Colour: -GREY: similar RAL9002

-BLACK: similar RAL9017

CatNo.	Product Name	
KH01220	TKH-MOUSE-IP68-GREY-OPT-PS/2	grey; PS/2
KH01221	TKH-MOUSE-IP68-GREY-OPT-USB	grey; USB
KH02410	TKH-MOUSE-IP68-BLACK-OPT-PS/2	black; PS/2
KH02408	TKH-MOUSE-IP68-BLACK-OPT-USB	black; USB
Other interfaces/configuration available on request		



TKH-TB38b-MODUL

TKH-TB38b-FP

Specification

Mounting Type: - TKH-TB38b panel mount

- TKH-TB38b-FP rack mount

Dimensions: - TKH-TB38b 110 x 135 x 45 mm

4.33" x 5.31" x 1.18"

- TKH-TB38b-FP 106.4 (21 TE) x 128.4 (3 U) x 38 mm

4.18" x 5.05" x 1.5"

Weight: 200 g

Operating Temperature: -40 °C to 90 °C

-40 °F to +194 °F

Frontpanel Material: PCB-material; FR4

Ball Diameter: 38 mm (1.5")

Actuation Force: 50 g

Trackball Lifetime: > 6 mil. revolutions
Protection Level: IP65 static; NEMA 4x;

IP54 dynamic (front)



CatNo.	Product Name	
KH02005	TKH-TB38b-MODUL-PS/2	PS/2
KH02006	TKH-TB38b-MODUL-USB	USB
KH02003	TKH-TB38b-FP-PS/2	PS/2
KH02004	TKH-TB38b-FP-USB	USB

TKH-TB50

Specification

Ball Diameter: 50.8 mm; 2"

Actuation Force: 50 g

Number of Keys: 3 silicone switches

Protection Level: IP65 static;

IP54 dynamic; NEMA 3 (front)

Interface: PS/2

Dimensions: 128.4 x 106.3 x 103 mm

5.05" x 4.18" x 4.05"

Weight: 650 g

Operating Temperature: 0 °C to 50 °C

32 °F to 122 °F

Ball Material: phenolic resin Resolution: 155 pulses/rev.



CatNo.	Product Name	
KH06521	TKH-TB50-AL-NAT-FP-PS/2	Aluminium; PS/2
KH09433	TKH-TB50-AL-NAT-FP-USB	Aluminium; USB



TKH-TOUCHb-MODUL





Dimensions: 110 x 135 x 20 mm

4.33" x 5.31" x 0.78"

Weigth: 150 g

Specifications: see page 75

Available Modules

• Keyboard with 85 keys

• 38 mm trackball

• Capacitive touchpad

Specification TKH-TOUCHb-MODUL

Motion Detection Method: capacitive

Resolution: 40 counts / mm

Protection Level: IP65;

NEMA 4x (front)

CatNo.	Product Name	
KH02009	TKH-TOUCHb-MODUL-PS/2	PS/2
KH02010	TKH-TOUCHb-MODUL-USB	USB
Other interfaces/configuration available on request		

TKH-TOUCHb-FP





Dimensions: 106.4 (21 TE) x 128.4 (3 U) x 15 mm

4.18" x 5.05" x 0.59"

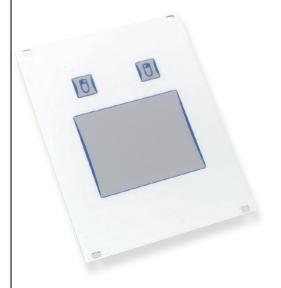
Specifications: see page 75

Available Modules

• Keyboard with 85 keys

• 38 mm trackball

• Capacitive touchpad



CatNo.	Product Name	
KH02007	TKH-TOUCHb-FP-PS/2	PS/2
KH02008	TKH-TOUCHb-FP-USB	USB
Other interfaces/configuration available on request		



Electronic Access control

Features and benefits:

- PS/2 and USB compatible
- Professional fingerprint reader to improve your IT-security
- Optional software for the PC-logon
- IP54 protection
- Biometric recognition



TKH-FPSa-MODUL





- Professional fingerprint reader to improve your IT-security
- Please note: Optional software for the PC-logon; available only by the company Upek under: http://www.upek.com/solutions/psql/chekpoint.asp

Specification

Image Resolution: 500 dpi

Protection level: IP65; NEMA 4x

Electronic Interface: USB

Dimensions: 110 x 135 x 15 mm

4.33" x 5.31" x 0.59"

Weight: 200 g

Operating Temperature: 0 °C to +70 °C

32 °F to 158 °F

Frontpanel Material: aluminium

CatNo.	Product Name	
KH14010	TKF-FPSa-MODUL-USB-US	USB; US-Layout
Other language versions/interfaces/configuration available on request		



Keyboard Controller and Accessories

Keyboards consist of a large matrix of keys which are monitored by an onboard processor. The specific processor varies from keyboard-to-keyboard but they basically do all the same thing: to monitor which key is pressed and to send the appropriate data to the host. InduKey® offers one of the widest ranges of keyboard controllers with excellent features.

Features and benefits:

- Each key programmable in different layers
- Self programmable keyboard controller (via USB-interface)
- Pre-programmed keyboard controller with full key functionality
- Outputs for Num-, Caps-, Scroll-Lock
- Version -W with connection for secondary keyboard



TKC-8000



- One of the smallest professional keyboard controllers
- Each key programmable in 2 layers



Max. Number of Keys: 128 (max. 8 x 16 Matrix)

Inputs: key matrix

= 128 Keys max.

Electronic

Interfaces: USB-; PS/2-Keyboard-Port

Dimensions: 45 x 25 x 11 mm

1.77" x 0.98" x 0.43"

Weight: 10 g

Operating Temp: -40°C to +90C°

-40 °F to +194 °F

CatNo.	Product Name	
KC08000	TKC-8000-USB-PS/2	USB-PS/2-keyboard-decoder
KK05400	TKK-5400-PS/2	PS/2-cable TKC-8000
KK06810	TKK-6810-USB	USB-cable TKC-8000
KW08002	TKC-8000-MANUAL-US	Technical manual, US

TKC-6800



- Self programmable keyboard controller (via USB-interface)
- Maximum 128 keys, programable in 2 layers (8 characters each)
- Outputs for Num-, Caps-, Scroll-Lock

Specification

Number of Keys: 128

Inputs: key matrix

= 128 Keys max.

Electronic

Interfaces: USB-; PS/2-Keyboard-Port; 2x ADB

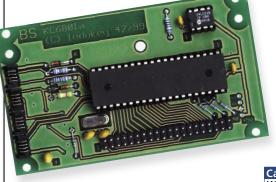
Dimensions: 98 x 58 x 12 mm

3.85" x 2.28" x 0.47"

Weight: 45 g

Operating Temp: -40°C to +90C°

-40 °F to +194 °F



CatNo.	Product Name	
KC06810	TKC-6800-USB-ADB-PS/2-SET	Controller, softw., EEPROM, manual
KC06800	TKC-6800-USB-ADB-PS/2-PLATINE	Universal keyboard controller
KC06802	TKC-CHIP-6800-V1.1	Firmware on chip version 1.1
KP06802	TKC-6802-EEPROM	Blank EEPROM
KP06800	PROGRAMM-TKC-6800-Software	Download-software on disk
KK05400	TKK-5400-PS/2	PS/2-cable
KK06810	TKK-6810-USB	USB-Cable
KW06803	TKC-6800-MANUAL-US	Technical manual, US



TKC-14000

Pre-programmed keyboard controller with full key functionality



Specification

Max. Number of Keys: 144 (8 x 18)

Input: Pin Header 2.54 (2-row)
Interfaces: USB-; PS/2-Keyboard-Port

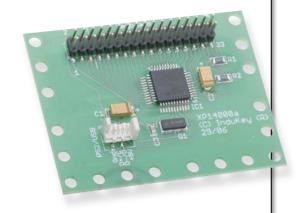
Dimensions: 65 x 50 x 10 mm

2.56" x 1.97" x 0.39"

Weight: 15 g

Operating Temperature: -40°C to +90C°

-40 °F to +194 °F



CatNo.	Product Name	
KC14000	TKC-14000-PS/2-USB	Controller
KK06810	TKK-6810-USB	USB-Cable
KK14400	TKK-14400-PS/2	PS/2-cable
KW14050	TKC-MANUAL-US	Technical manual, US

TKC-6000

- RS232-terminal controller for up to 128 keys
- Programmable in up to 4 layers
- Output for Hitachi 44780-compatible LC-displays



Specification

Inputs: key-matrix $16 \times 8 = 128 \text{ max}$.

Electronic Interfaces: RS232 / V.24

Data Format: Data line TxD und RxD;

Full Duplex; 9600Bd/1/8/N1 (other parameters on request)

Display-Outputs: 2 pcs. Display 2x40 char. or

1 pcs. Display 4x40 char.

LED-Outputs: 8

Dimensions: 110 x 70 x 20 mm

4.33 x 2.75 x 0.78"

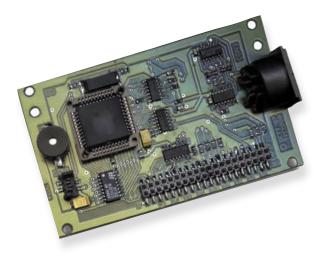
Power consumption: 350 mA (max.)

CatNo.	Product Name	
KC06100	TKC-6000-I/O-Controller	Miniterminal Controller
KK06102	TKK-6102 Kabel Keyboardmatrix	Cable keyboard matrix
KK06103	TKK-6103 Kabel TKC-6000-Display 2x7	Cable TKC-6100-Display 2 x 7
KK06101	TKK-6101 Kabel TKC-6100<->RS232	Cable TKC-6100 <-> RS232
KW06101	TKC-6100-MANUAL-US	Technical Manual, US





TKC-5000-AT





- Keyboardcontroller for up to 128 keys
- Version -W with connection for secondary keyboard
- Outputs for Num-, Caps-, Scroll-Lock

Specification

Max. Key-Nr.: 128

Inputs: key matrix (only -W-version)

additional keyboard

Interfaces: AT; PS/2

Dimensions: 98 x 58 x 12 mm

3.85" x 2.28" x 0.47"

Weight: 40 g

Operating Temp: -40°C to +90C°

-40 °F to +194 °F

CatNo.	Product Name	
Hardware		
KC05000	TKC-5000-PS2/AT	Keyboard controller
KC05100	TKC-5000-AT-W	with electr. wedge
Software	in processor EPROM (AT89C51):	-
KP05000	PROG-5000	Keyboard code program (105 keys)
Accessories:		
KK04020	TKK-4020-KABEL-TASTATURMATRIX	Input cable for matrix 8x16
KK05400	TKK-5400-PS/2	PS/2-cable
KW05002	TKC-5000-MANUAL-US	Technical manual, US
KW05001	TKC-5000-MANUAL-GER	Technical manual, German
Programming of your matrix code table by Indukey (Setup Costs)		
RK00001	RKC-GRUNDPREIS	Special programming basis charge
RK00002	RKC-EINTRAGSPREIS	Special programming per entry



TKC-7500-TRACK



- Trackball controller
- Suitable for trackballs without own electronic control
- For trackballs with x/y-output



Specification

Dimensions: 40 x 53.5 x 22 mm

1.57" x 2.11" x 0.87"

Input: x/y-Trackball signal
Output: PS/2; USB; RS232
Operating Temp: 0°C to +55 °C

32 °F to 131 °F

Supply Voltage: $5 V \pm 0.25 V DC$ Power consumption: 12 mA (typ.)

28 mA (max.)

CatNo.	Product Name			
Hardware				
KC07500	TKC-7500-Track	Trackball controller		
KK07502	TKK-7502	Cable for trackball TK38 <> controller		
KK05400	TKK-5400-PS/2	Cable for PS/2 to KC7500		
KK06810	TKK-6810-USB	Cable for USB to KC7500		



TKH-3-ELEKTR



TKH-3-ELEKTR-PS/2

Electronic Switch for 2 PS/2-Keyboards into 1 PS/2-PC-Keyboard-Port

Electronic Switch Box to connect 2 Keyboards to 1 PC Keyboard Port

- Simultanious connection of 2 keyboards into 1 keyboard
- Automatically controlled by the integrated port electronic

Type:	TKH-3-PS/2	
Input1: Input2: Out- put:	6-p. Mini-DIN-socket 6-p. Mini-DIN-socket 6-p. Mini-DIN-plug	
Dimension	2.75" x 1.41" x 1.18"	

CatNo.	Product Name	
KH14000	TKH-3-FLFKTR-PS/2	PS/2

TKA-4500-BOOT



Phantom Keyboard Box

- Possibility of booting without connected keyboard
- Excellent for high security applications, such as banking
- No additional software driver necessary
- PS/2-Interface
- Ideal to avoid unauthorized access

Specification

Cable Length: 160 mm (min.)
Dimensions: 82.5 x 54 x 28.5 mm
3.248" x 2.125" x 1.122"
Power supply: via keyboard interface

Cat.-No. Product Name
KA07403 | TKA-4500-BOOT-PS/2 | Phantom-Keyboard, PS/2



Custom Keyboards and Data Input Devices

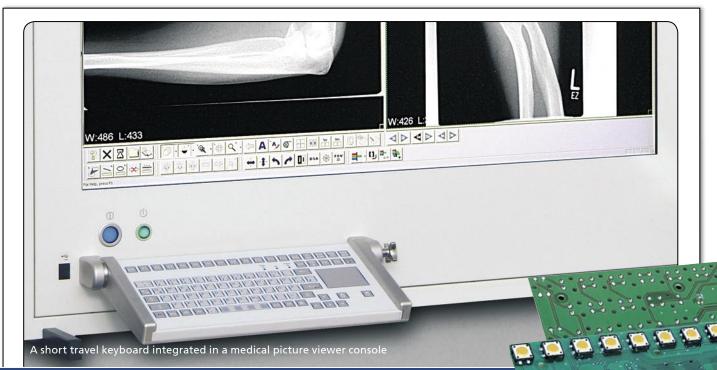
Custom Keyboards with their specific requirements, demand the most exacting standards of design and manufacture. InduKey® offers a rapid cost effective service if the standard range does not cover your requirements. We offer special keyboards, special key layouts, colours and legends, special front plates and enclosures.

InduKey® has the expertise and experience to meet these standards and guarantee technical excellence in every step of the way. We guarantee that the keyboards we design and produce for you are manufactured exactly according to your specifications.

Sections and departments:

- Custom Short Travel Keyboards
- Custom Gold-on-Gold Dome Keyboards
- Custom Flexible Membrane Keyboards
- Custom Design Foils and Metal Plates
- Custom Silicone Keyboards
- Custom Long Travel Keyboards
- Custom Enclosures and Devices
- Custom Development and Production
- Custom Resistive Touchscreens





Foil covered Short Travel Keyboards

These keyboards are equipped with high-quality short travel keys behind a metal front panel. Custom front foils and legends available on request. The front panel is covered with a protective and printed polyester-foil. When mounted correctly the front is sealed to IP65 standards. The short travel keys offer a good tactile feedback for the user. Short travel keys have a very long life time. They are available in different sizes and actuation forces. Key travel is normally around 0.3 mm.

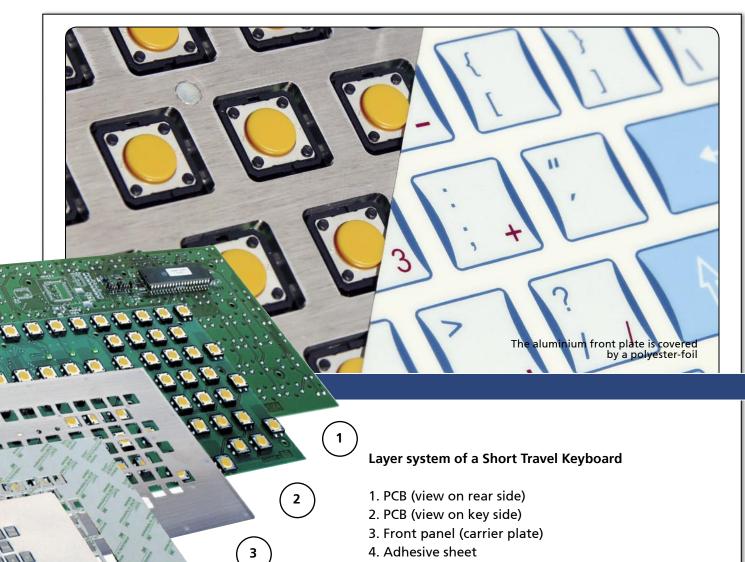
Excellent features

- Resistant against dust and splash water
- Suitable for rough environments
- Backlight option with adjustable brightness available
- Good tactile feedback through short-travel keys
- Integration of display windows possible
- Integration of additional electronic elements and functions on the PCB
- Different sizes available on request
- Custom front foils and legends available on request

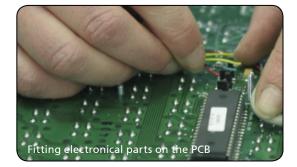


Custom Short Travel Keyboards









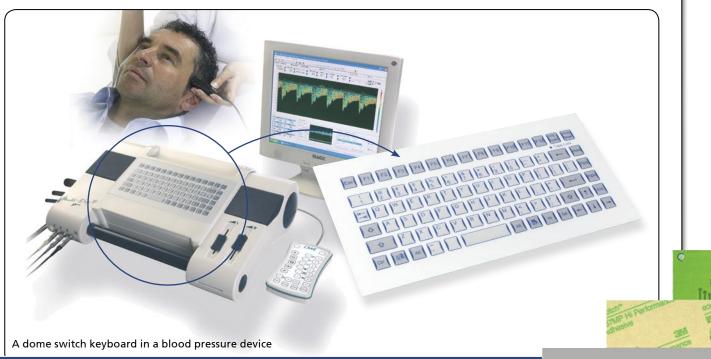
5. Design foil

Key advantages

- Exactly manufactured to your custom requirements
- Custom layout and color design available on request
- Variable height of short travel keys
- Very robust aluminium front panel
- Development and layout designs done by our in-house R&D
- We use state-of-the-art CNC machines for all metal production
- Production of the design foils on our own silk screen printing systems
- Customer involvement throughout all stages of design and production
- In-house PCB production for prototypes



Custom Gold-on-Gold Dome Keyboard

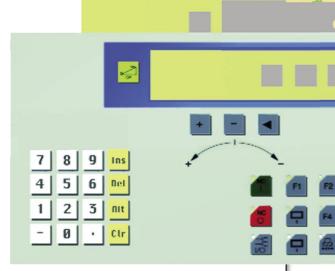


Dome Switch Keyboards

Our Dome Switch Keyboards are a low-cost alternative to the Short Travel Keyboards. They use a high quality gold-on-gold membrane key-switch technology where a gold metal dome is placed over a gold contact on a reinforced PCB. The keys are protected by a 150 µm thick wear and tear resistant Autotex polyester frontsheet. The front-sheet is resistant to most industrial chemicals because of the "reverse printing technology". They are available in desktop, 19 inch rack-mount or panel mount versions. Our Membrane Keyboards are sealed to IP65 and are available with trackball or capacitive touchpad. Interfaces available: PS/2 or USB. We offer semi or full customisation on all Membrane Keyboards.

Excellent features

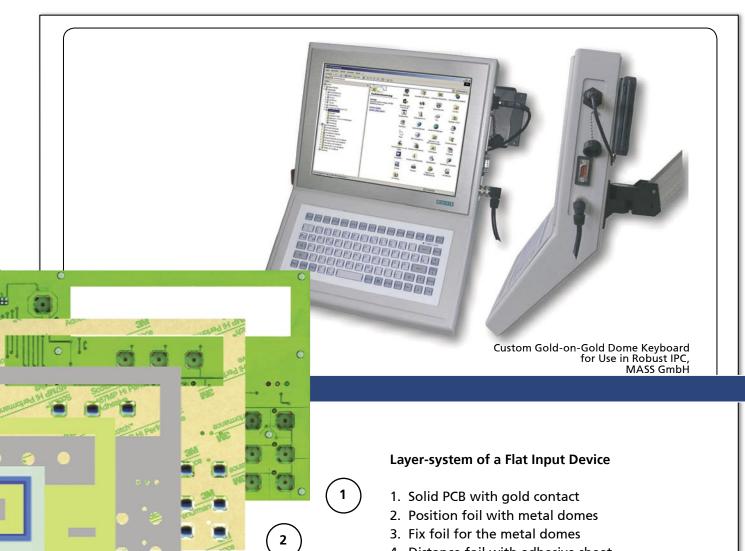
- Positive tactile feedback and key embossing
- Rugged construction for reliable functionality
- Chemical, abrasion and scratch resistant frontsheet
- IP65 (NEMA 4x) sealing
- > 1 mil. operations per key
- Activation force 2 N / key travel 0.3 mm
- Reinforced PCB (FR4- material) for mechanical stability
- Backlit versions available





Custom Gold-on-Gold Dome Keyboards

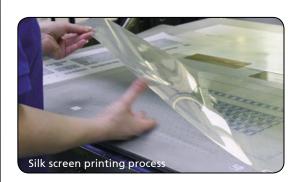




- 4. Distance foil with adhesive sheet
- 5. Design foil with printings

Key advantages

- Custom layout and color design available on request
- Fine structured special polyester front foil available with good chemical resistance
- Several key embossing options available
- Exchangeable key legends available
- Compact design requires minimum space
- Every metal dome is fixed in position to ensure a long lifetime
- Protection against dust and water (IP65)
- Good tactile feedback through gold plated stainless steel domes
- Backlit version available
- Fully illuminated flat foil keyboards



Custom Flexible Membrane Keyboards



Flexible Membrane Foil Keyboards

The membrane foil keyboard is manufactured as a glued foil-layer-system. Silver-paste printed polyester foils are normally used as switch membranes. A spacer foil separates the lower and the upper switch

membrane layer. The contact is made by pressing on the upper design foil in the key area. The upper switch membrane layer is situated on top of the design foil. The highly transparent design foil comes as a fine structured or smooth surface. This foil can be printed in various colors and/or legend information. Edge or key embossing as well as inlaying of metal domes ensure an excellent tactile feel and lead the finger to the right position.

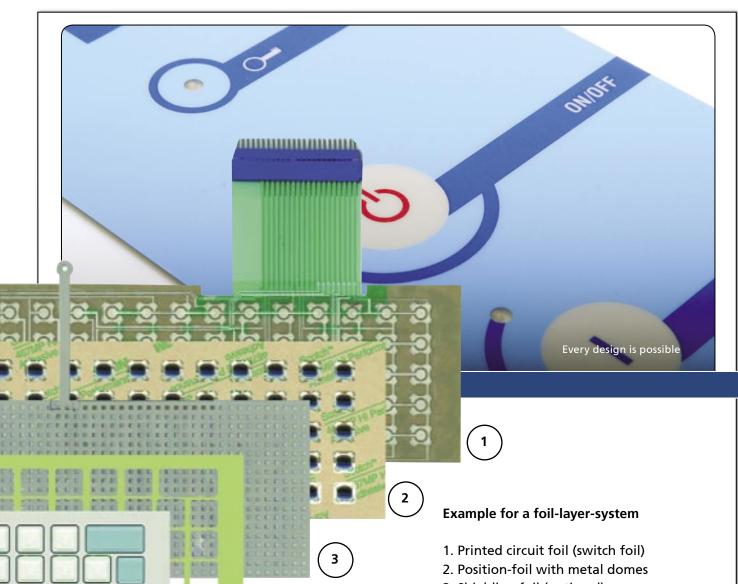
Excellent features

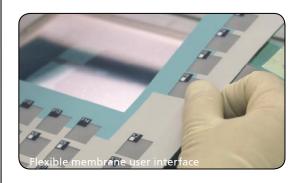
- Suitable for data input devices of any kind
- IP65 sealed chemical resistant polyester front foils
- Positive tactile feedback with embossing options
- Resistant against dust and low pressure water jets
- Custom colours and key layouts
- Optional rugged aluminium front panel available



Custom Flexible Membrane Keyboards







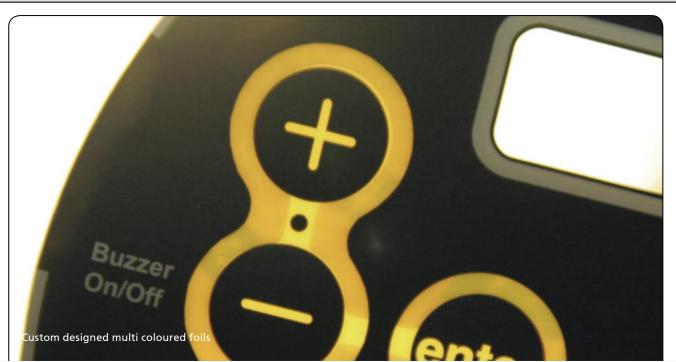
- 3. Shielding foil (optional)
- 4. Adhesive sheet for the design foil
- 5. Design foil

Key advantages

- Easy to clean with most cleaning detergents
- Protected against dust and moisture
- In-house development and layout design
- Custom-layout and color design on request
- Foil printing in our in house silk screen printing department
- Zero Force connectors or clinched male or female connectors available



Custom Design Foils and Metal Plates

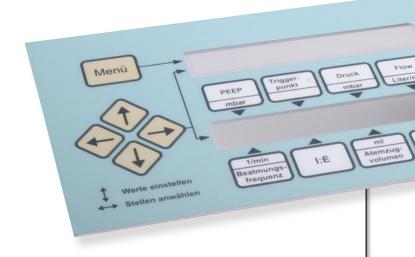


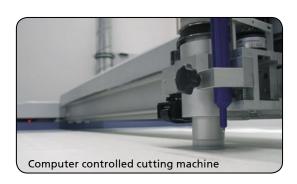
Custom front foils

The surface can be smooth or textured. To make the foils and printing wear and tear resistant the legends are printed on the rear side. Special layering techniques offer the possibility of having removable legends. Our embossing options offer maximum key feedback.

Excellent features

- Suitable for use in all industries
- Custom designs and multi coloured printing options
- Several embossing options available
- Easy to clean with most cleaning detergents
- Sealed against dust and moisture
- Sealed up to IP68 standards

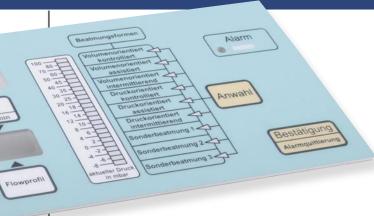




Custom Design Foils and Metal Plates









Front panels from InduKey®'s mechanical production department

We work with the latest in 3D CNC milling machines. We have the technologies to meet all your requirements in mechanical engineering projects. All metal parts produced in our mechanical department can be finished with any surface treatment techniques. We offer our customers bespoke metal products or parts for the production of standard and custom keyboards.

Key advantages

- Layout, color design and text labels of the foils exactly according to your requirements
- Available as laminated graphic overlay with adhesive tape on rear side, as front panel or directly laminated on the case
- Possibility to combine keys with various technologies
- We use the latest CAD system for professional drawings





Silicone Keypads

Silicone keyboards are used in many applications, for example in medical, communication and food & beverage industries. In comparison to other keyboard technologies the silicone keyboards have an excellent price performance ratio and are robust and reliable. Unlimited design options are possible. Silicone keyboards are made of high flexible and toxin free silicone rubber. Pressure and accurate temperature control are parts of the production process of these keyboards. Special tooling is required for every different design. A conductive carbon pill is located under every key and a key stroke is made by pushing it against a special coil printed on the PCB or foil.

Excellent features

- Unlimited design possibilities
- Different color combinations in one keyboard possible
- Very good chemical resistance
- Resistance against dust and water
- Key position sensing
- Backlit versions available





Custom Silicone Keyboards







Silk-screen printing is normally used as a printing method on the top of a silicone key. If required, the key tops can be coated. Which means a better touch than a pure silicone surface. The coating also significantly improves the resistance against abrasion.

Key advantages

- Well-designed switches guarantee a reliable contact on the PCB
- Quality key switch technologies ensure high reliable switching
- Key tops available in different colours and hardness
- Smooth surface avoids trapping of dirt.
- Design and construction by InduKey®
- Different electronics in SMD technology as option
- Customized enclosures available
- Low prices for high volume productions due to own production plant in mainland China







InduKey's® long travel keyboards are used in the most demanding industries. From airport terminals to point-of-sales applications. We offer customisation of the key layout, colour schemes and even fully customised polystyrene or metal enclosures. By using the famous Cherry MX keys with their typical 4 mm key travel we can offer the highest quality keyboards.

Excellent features

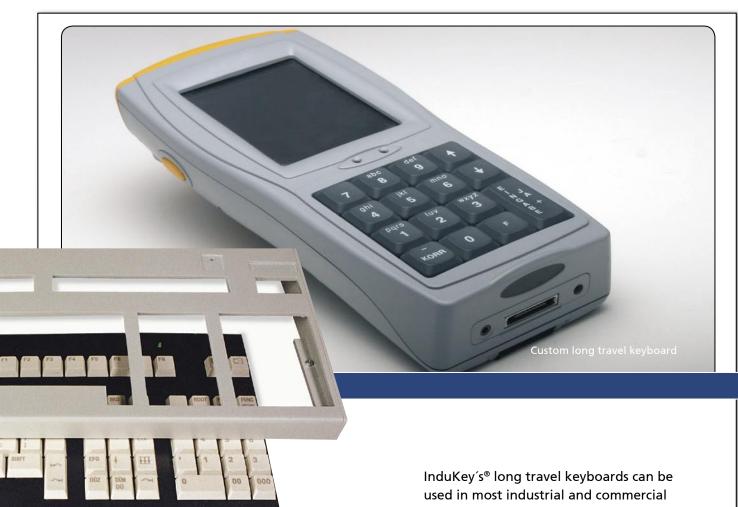
- Reliable contact system prevents input errors
- Lifetime of more than
 50 million operation cycles
- Usage of the long life gold-crosspoint technology
- Layout and color design available on request
- High quality keyboards for professional usage and personal applications

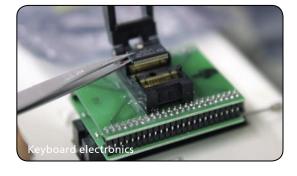


millinthimin

Custom Long Travel Keyboards







applications where high-speed data input is needed.

Key advantages

- Special keyboards for POS-systems, medical devices, measurement instruments and more
- Ideal for high speed data input and computing
- Anti-glare surfaces for the key tops and enclosures
- Legends in different technologies available
- Highly resistant against abrasion of the key legends
- Complete development and manufacturing by InduKey®
- Also available in fully customized enclosures





Enclosures and Devices

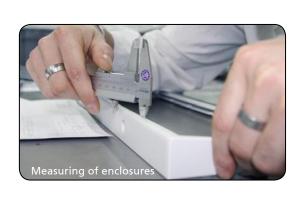
To realize your projects you need a functional keyboard in the right enclosure. Sometimes a standard of-the-shelf product will just not do. We can help by developing with you the right keyboard and enclosure by advising on the best key switch technology and enclosure materials. This will help you to supply your customers with high quality and cost effective keyboard solutions.

Metal enclosures

- Use of standard profiles
- Construction of pan casings
- Best shielding and durability
- Also available in IP65
- Different surfaces possible

Production of vacuum formed plastic enclosures

- Suitable for production series between 100 and 2000 PCs
- Low cost vacuum tool
- Variable divide-fugues possible
- Different surface structures



Custom Enclosures and Devices







Enclosures without special tooling

- Suitable for prototype production and production in lower quantities
- Plate material is cut and bent
- Front covers are specially glued
- Suitable for simple geometric contours
- No tooling required so low setup cost

Enclosure production - plastic injection housings

- Suitable for mass production
- Low cost enclosure for mass production
- Exact test form stability
- Good value for tool production



Custom Development and Production



Complete devices - Development and manufacturing

InduKey® is your specialist for complete HMI (human-machine-interfaces) and has an experienced hard- and software development team as well as a high capacity, well equipped production plant. We make what you want!

Guangzhou InduKey® Assembly Ltd.

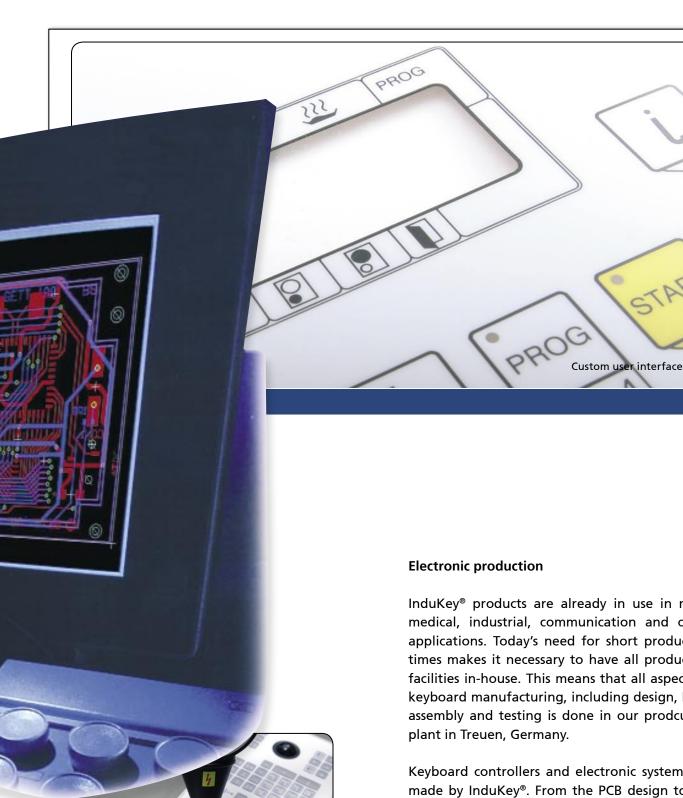
Our subsidiary in Guangzhou, Mainlands China, offers a complete manufacturing service:

- Assembling of electronic OEM products in large quantities
- German management
- Cost effective handling
- Strict quality testing
- A competent partner from the first idea over R&D to the final product
- Excellent technical know-how
- DIN EN ISO 9001:2000 certified



Custom Development and Production





InduKey® products are already in use in many medical, industrial, communication and office applications. Today's need for short production times makes it necessary to have all production facilities in-house. This means that all aspects of keyboard manufacturing, including design, R&D, assembly and testing is done in our prodcution

Keyboard controllers and electronic systems, all made by InduKey®. From the PCB design to the end test - Our knowledge guarantees reliability and quality.

We aim to give you the shortest time between order and delivery of your prototypes.

EM testing of a short travel keyboard



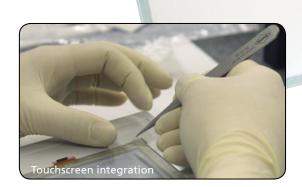


Resistive Touchscreens - How it works

- Resisitive touchscreens consist of a flexible top and a solid bottom layer, separated by tiny spacer dots
- The insides of the two layers have a conductive metal transparent film
- Pressure on the top foil will create a contact between the two layers and a controller connected to
 a computer can calculate the exact position of the
 pressure point by accurately meassuring the resistance between that point and the x and y axes
- Touch point resolution of 2400x2400

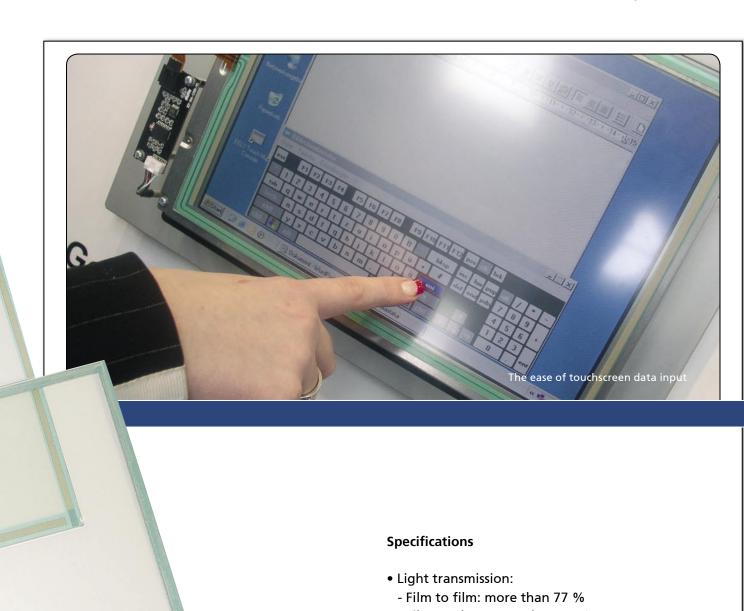
Application examples

- Kiosks
- Voting machines
- Financial devices
- Industrial PCs
- Factory automation
- Remote controls



Custom Resistive Touchscreens





- Film to glass: more than 83 %
- Life expectancy 4 wire types:
 - Touches: 1 million (using silicone rubber stylus)
- Scoring: 100 000 (using dia 2 polyacetal stylus)
- Life expectancy 5 wire types:
- Touches: 35 million (using silicone rubber stylus)
- Scoring: 5 million (using dia 2 polyacetal stylus)

Key Advantages

- Controller for different interfaces available
- 4 wire or 5 wire technology available
- More wires on request
- Custom touchscreens for low and high quantities
- Many years experience in Touchscreen production

cal test of a touchscreen



Favourable Assembling of Electromechanical OEM Products

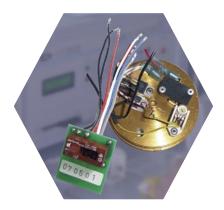
If you are looking for an economical and professional possibility to have your products assembled and manufactured, then Guangzhou InduKey® Assembly Ltd. offers you experience in OEM assembling, intercontinental logistics, and manufacturing in China.

Guangzhou InduKey® Assembly Ltd. assembles and produces economical, high quality components for different industries.

After Shanghai and Beijing, Guangzhou is the city with the third biggest economy in Mainland China. Compared to other cities in the Pearl River Delta, Guangzhou has not only the biggest economy but also the most diversified. Furthermore, the proximity to Hong Kong has exerted a positive influence on the economic development of the city.

OEM Product Assembling for All Sectors

- Computer peripherals
- Data input devices
- Medical devices
- Electronic giftware and promotional products
- Electronics for sports and leisure electronics
- Entertainment electronics



Professional Global Transports and Logistics

- Excellent logistic experiences in forwarding to Germany and Europe
- Optional on-site support for optimising the procurement of your single components
- Supplier parts easily available in the vicinity of the plant



Technical Know-How & High Quality Production

- Support by our experienced development engineers
- Very quick fabrication of prototypes
- Long lasting experience in OEM manufacturing
- DIN EN ISO 9001:2000



View all our services at www.indukey-assembly.com



Technical Information

In this section you will find technical background information about the field of data input. Besides a specialized glossary, we also provide interesting insights into protection rating, installation variants and keyboard types.

A comprehensive presentation of data input technologies is available on our homepage at www.indukey.com. Select the menus "Technical Information" or "Custom" on this page.





Intrinsically safe keyboards are ideal for systems that exist in potentially explosive environments. That does not only apply to the "classical" potentially explosive areas such as tank farms and mines, but to an increasing extent also to industrial environments. There are two possibilities for avoiding explosions – either to prevent the development of an explosive atmosphere or to prevent the ignition of such an atmosphere. Often it is not possible to eliminate an explosive atmosphere. Consequently, the ignition of such an explosive mixture must be avoided. For this, any devices that are applied in potentially explosive environments and that may pose a potential source of ignition must be constructed in such a way that an ignition is made impossible.

The keyboards in this category are completely certified and tested for the following protection zones:

Protection zone 1:

area where – in normal operation – a potentially explosive atmosphere in the form of a mixture of air and combustible gases, vapours or mists may occasionally occur.

Protection zone 2:

area where – in normal operation – a potentially explosive atmosphere in the form of a mixture of air and combustible gases, vapours or mists normally does not occur or only occurs for short periods of time.

Protection zone 22:

area where – in normal operation – a potentially explosive atmosphere in the form of a cloud of combustible dust that is contained in the air normally does not occur or only occurs for short periods of time.



	IP-Protection-Rating			
The IP classification system designates the degree of protection provided by a device against solid objects or water ingress.	Degree of Protection against solid objects Degree of Protection			
Degree of Protection against solid objects	against water			
IP 1st Digit				
O Non-protected	ø 50			
Protected against solid objects greater than 50mm, such as a hand				
2 Protected against solid objects greater than 12.5mm, such as a fin	ger 012			
$\bf 3$ Protected against a solid object greater than 2.5mm, such as wire	or a tool.			
4 Protected against a solid object greater than 1.0mm, such as wire or thin strips				
5 Dust-protected, prevents ingress of dust sufficient to cause harm				
6 Dust tight, no ingress of dust				
Degree of Protection against water IP 2nd Digit				
O Non-protected				
1 Protected against dripping water, falling straight up	\$ 150			
2 Protected against dripping water when tilted up to 15°	**************************************			
3 Protected against spraying water at an angle of up to 60 $^{\circ}$				
f 4 Protected against splashing water from any direction				
5 Protected against jets of water from any direction				
6 Protected against powerful jets of water, prevents ingress sufficie	nt to cause harm			
7 Protected against the effects of temporary immersion in water				
8 Protected against the effects of continuous immersion in water				







Short travel switches

Mechanical switch elements used in industrial keyboards with a key travel of 0.3 mm and an actuation force of 3 N. This rugged switches are rated for up to 3 million operations. Short travel switches are used in all models of the TKS series and also in special models of other series. As these switches can also be covered with foil they are primarily used in industrial keyboards.



Long travel switches

As mechanical switch elements they are used in conventional PC keyboards. The key travel of this switches is 4 mm and they require an actuation force of 0.6 N. Long travel switches are suitable for the input of large data quantities; they are conditionally suitable for application in industrial environments.



Silicone switches

Silicone switches have carbon elements on the bottom side that establish the contact with the PCB after being actuated. The keys provide a pleasant tactile feedback and a very low noise level [e.g. for military applications]. Only requiring an actuation force of 1.2 N, this keyboard technology is suitable for a high operation frequency.



Dome switches [gold-on-gold switches]

Mechanical switch elements that – as slightly curved metal dome – establish the contact with the PCB after being actuated. One of the advantages of the dome switches is their low height. This allows for the very flat design of the models from the TKF series, which can also be installed in extremely flat panels. The actuation force for the keys is 2.0 N, the key travel is 0.3 mm. Like short travel switches, dome switches are usually covered with foil, which makes them suitable for industrial applications.



Metal switches

This metal switches primarily used for the TKV series are actually silicone switches. The difference is that such a silicone switch is equipped with a metal cap which makes it proof against being levered out. This is ensured by a brim on the bottom side of the cap, which anchors the cap firmly to the front panel.









DESKTOP Version

Desktop versions can be used as so-called standalone versions. They are suited for places where a stable and even surface is available. Due to the plastic knobs on the bottom side of the device, they are skid-proof. One of the advantages of desktop versions is their application flexibility. They can be connected to systems with standard interfaces (PS/2, USB) without any problems.



MODUL Version

The most often used integration method for keyboards and cursor controls is the so-called module variant. The studs on the rear side allow a comfortable installation into almost every system of any type. Due to the seals (included in delivery) which are layed underneath, a high IP level is guaranteed. The installation depth varies depending on the series – the models of the TKS series have a larger installation depth than the models of the TKF series.



FP Version

Front panel versions are mainly used for integrating data input devices into 19-inch racks or 19-inch drawers. The mounting drillings on the sides of the front panel allow a comfortable installation of the device. Some of the keyboards from the TKS series are also available with HE indications (1 HE = 44,45 mm). HE is a standard unit in the field of 19-inch rack systems.



VESA Version

The mounting of electronic devices to the wall, the ceiling or to panels is subject to the so-called VESA standard. Thus, the back side of the devices is equipped with four threaded bolts with a thread length of 10 mm each for supporting bolts of different sizes. The distance between the mounting drillings corresponds to a standardized pattern (usually 75 x 75 mm). This installation method includes the assembly and system integration of desktop devices.



Adapters, Connections

Devices that allow the connection of PS/2 devices to USB connections or of USB devices to PS/2 connections.

DIN Standards (DIN, the German Institute for Standardization)

You will find further information on keyboard standards, amongst others, in the following provisions:

DIN 2137 Keyboards and key layouts

DIN 2139 Key arrangements
DIN 42115 Foil keyboards

Driver (Keyboard Driver)

Each country variant requires a separate keyboard driver (software). This driver is loaded in a memory-resistant way during the boot process. It receives the input scan codes and transforms them into the characters of the respective country.

Key Combination

The key combination (also hot key, key sequence, keyboard combination, short cut) refers to the action of pressing several keys simultaneously or successively in a certain order. The application of such combinations allows the transmission of certain control commands to a program (such as "open file", "close window", "finish program" etc.) and also the direct call of certain functions of the operating system (e.g. "start a new program" etc.). It is also possible to enter special signs, even if they are not printed on the keyboard.

Key Matrix

For the retrieval of a special number of single keys, this keys will be interconnected in a matrix with x columns and y rows. The connected keyboard controller makes a clocked control of the columns and a clocked reading of the rows (like a table). This process is called scanning. So the position of a pressed key can be identified.

Line Amplifier

Allows for bridging long distances between the system and the peripherals; range of up to 200 metres. The basic function of this device is to amplify input or output signals.

MF-102

Standard for multi-function keyboards with 101 and 102 keys, which was created by International Business Machines (IBM).

N-Key Rollover

By a clocking by diodes at the crossover points in the matrix the controller can realize if more than one key is pressed. So there accrue little "Ghost keys". So, for keyboards with multi key usage decoupling diodes are necessary.

PS/2 Interface

The PS/2 interface is an often used serial interface for input devices such as keyboards and mice, in rare cases also for other pointing devices such as trackballs or digitizer tablets. This interface uses a six-pole Mini DIN plug whereas the interface of the former AT format was equipped with a larger five-pole DIN plug. The poles of the plugs have the following functions: data conduction, earth, voltage supply, clock signal, two poles are not wired (NC). For being able to connect and to operate PS/2 devices, the computer must normally be shut down and restarted after the connection has been established.

Scan Codes

The keyboard controller located in the keyboard scans the key matrix. If it identifies a key press, it reads from the intern code table the corresponding symbol and sends it to the computer. For IBM-XT-AT-PS/2-Sytems the codes are called scan codes. One scan code is significant for a definite key position on a MF-102-keyboard, not for a definite symbol (see the table on the right).

Track Switch, Electronic

Devices that allow the connection of, for instance, two keyboards or of one keyboard and one mouse to an interface.

USB Interface

USB is a bit serial bus which means that the individual bits of a data packet are transferred successively. The data transfer is realized symmetrically by means of two twisted lines. One of them transfers the unaltered signal and the other one the inverted signal. The signal receiver creates the differential voltage between the two signals; thus the voltage increase between 1-level and 0-level is twice as high and interferences are eliminated to a large extent. The transmission liability is increased and common-mode interferences are prevented, which will also improve the electromagnetic compatibility. Two further lines are used for the power supply of the connected devices. USB is completely Plug&Play compatible, i.e. after the connection of a device to the USB interface, the DOS will identify the respective peripherals. It is possible to connect – via hubs – up to 256 USB devices.

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Joystick, keyboard with 14

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