

LPP420: Loop powered, range 4-20 mA.

GP422: Supply voltage 9-35 VDC / 6-25 VAC, 3 ranges.

LCD display with yellow backlight.

Easy range adjustments with push-buttons.

Made in accordance with the CE and EMC regulations



LPP420 and GP422 are 3 3/4 digit instruments (+/-3999) with backlit LCD display. The displays have a very large contrast, which makes them very suitable in panels where the ambient light is high.

Technical data:

Supply voltage GP422: 9-35 VDC / 6-25 VAC

The supply voltage is galvanically isolated from the internal electronics.

Metering ranges: 0-1 V, 0-10 V and 0-20 mA.

Input protection: 35 VDC (all ranges)

Input impedances: 1V: >10 MΩ, 10V: >110 kΩ
20 mA: typ. 50 Ω

Loop voltage, LPP420: <3,7 V, normal light intensity
<5,7 V, increased light intensity

Operating temp.: -10°C to +60°C

Humidity: 0 - 90% RH, non-condensing

Protection: IP 44

Temp.coefficient: <0,015%FS / °C

Linearity: <0.05% FS

Display reading: +/- 3999

Overload indication: display shows "----" or "----"

Connections: screw terminals, max. 1,5 mm.

Mech. dimensions: 48 x 48 mm, depth 67 mm

EMC and safety regulations.

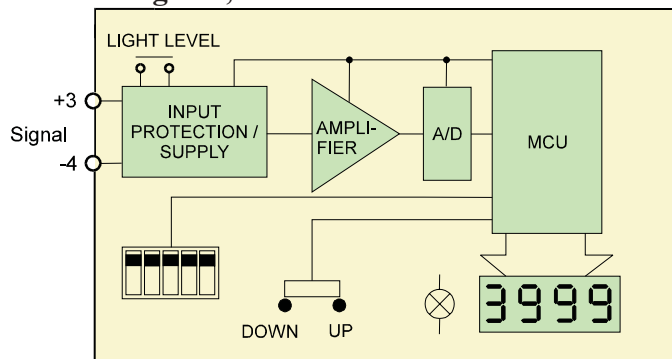
Emmision: EN 50 081 - 1

Immunity: EN 50 082 - 2

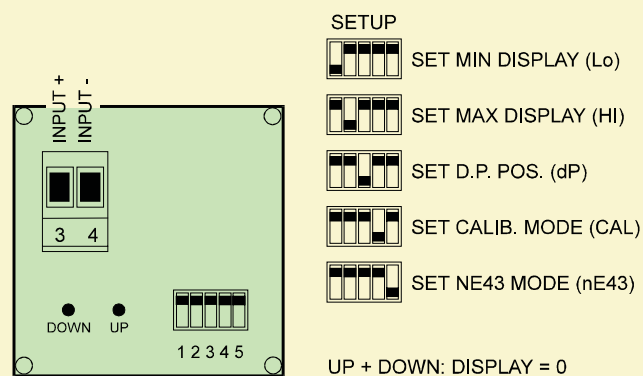
Safety: EN 60 730

Approvals: The units are produced in accordance with the CE and low voltage regulation

Block diagram, LPP420:



Connections and calibration



(Example LPP420)

Calibration procedure, general:

Select calibration parameter by setting **SETUP** switch 1-5 ON. Display shows **HOLD** and the selected function for 2 secs. Enter the wanted value with the **UP** and **DOWN** buttons. Set **SETUP** switch OFF, backlight flashes and **HOLD** display extinguishes.

Range adjustment, calibration mode ON (LPP420 only):

Connect any current signal between 4 and 20 mA to the instrument.

Set switch 1 ON, and enter the wanted display reading for 4 mA input.

Set switch 2 ON, and enter the wanted display reading for 20 mA input.

Range adjustment, GP422 and LPP420, cal. mode off:

Connect minimum input signal, f.inst. 4 mA to the instrument.

Set switch 1 ON, and enter the wanted display reading for min. input.

Connect maximum input signal, f.inst. 20 mA to the instrument.

Set switch 2 ON, and enter the wanted display reading for max. input.

Select input type, (switch 4, GP422 only):

1: 0-20 mA (A) 2: 0-10 V (10U) 3: 0-1 V (1U)

Select contrast, (switch 5, GP422 only):

Selection 0-7, 0 = min. contrast, 7 = max. contrast

NE43 mode, (switch 5, LPP420 only):

ON: display shows "----" if input signal out of range.

OFF: display shows the actual value if possible.