

Type:	Multi-instrument MIC
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Technical specifications

Voltage measurement:	
* Nominal voltage U_N	Ph-N: 230 VAC (load: 0.2 VA per phase at U_N) Ph-Ph:: 400 VAC
Measuring range	$0 \dots 1.2 \times U_N$
Overload range	$2 \times U_N$ cont. 2500 VAC for 1 s
PT	Primay: 100V...500kV. Secondary: 100V...400V
External fuse	1A / 230 VAC
Current measurement:	
* Nominal current I_N	5 AAC (load: 0.5 VA per phase at I_N)
Measuring range	$0 \dots 1.2 \times I_N$
Overload range	$2 \times I_N$ cont. $20 \times I_N$ for 1 s
CT primary	5A...10kA
Max. primary current	9999 AAC
Frequency input:	
* Frequency	Nominal f_N 50/60 Hz. Meas. range: 45...65 Hz. Measuring point: Ph1-N
Accuracy:	
* Voltage and current meas.	0.2% of range
* Frequency	0.2% of reading
Neutral conductor current	0.5% of range
* All power measurements	0.5% of range (both P, Q and S)
Power factor	0.5% of range
Active energy (kWh)	EN 61036 class 1
Reactive energy (kVArh)	EN 61036 class 2
Demand power	1.0% of range
THD measurement	1.0% of reading
Aux. power supply:	
* Supply voltage	85...264 VAC 50/60 Hz or 100...280 VDC. 2 VA or 2 W. Fuse: 1A / 250VAC
Other inputs/outputs	
* Digital inputs	Resistance: 2k Ω , max. 20mA. Range: 5...30 VDC. Isolation: 4 kVAC rms
* Digital outputs	Open-coll., NO, max. 30 mA. Range: +40...-6 VDC. Isolation: 4 kVAC rms
Relay outputs	AC: 250V-3A-750VA. DC: 30V-3A-90W. Isolation over open contact pieces: 750 VAC, 1 min Isolation to other circuits: 4 kVAC rms, 1 min.
* Communication	RS485 multi-drop, Modbus RTU, 1.200...38.400 bits/s

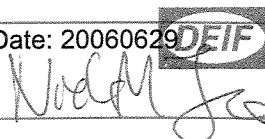
Type test specifications

Tested according to:

Temperature	Display: -5...55 °C Other parts/performance: -25...55 °C Storage: -25...70 °C	EN/IEC 60068-1/2
Humidity	0...95% RH, non-condensing	EN/IEC 60068-1/2
Temperature drift	100 ppm per °C	EN/IEC 60068-1/2
Protection	Enclosure: IP40. Terminals: IP20	IEC/EN 60529
Safety	EN 61010-1, Cat. III, poll.dg. 2	EN 61010-1
Test voltage	2200VAC rms, 50 Hz, 1 minute	EN 61010-1
EMC	Immunity	EN 61000-1-1/2
	Emission	EN 61000-1-3/4.

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