IN.10
2x AC CURRENT / VOLTAGE INPUT, ISOLATED

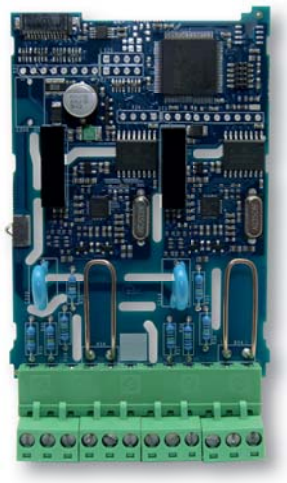
AC CURRENT /VOLTAGE INPUT

AC 0...10 V / 0...120 V / 0...250 V / 0...450 V
0...60 mV / 0...150 mV / 0...300 mV / 0...1 A / 0...2,5 A / 0...5 A

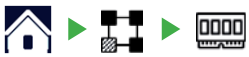
Measured quantities
Voltage, Current, Active power, Reactive power, Apparent power, Frequency, Power factor, Phase shift

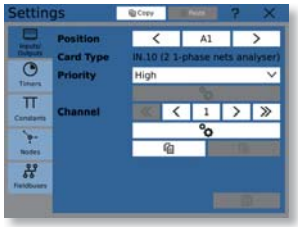
Rate
1/10 periods

Accuracy
0,3 % of range



CARD SETTINGS





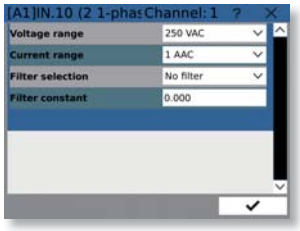
The following parameters are edited in the setting

Select the **Position of the card** to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position.

Data transfer **priority** of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames / s.

Channel to be set. Use buttons ◂ ◂◂ ▸▸ ▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set



Button ⚙ is used to navigate to the settings of the selected channel.

Voltage range	AC 0...120 V ▸ 0...250 V ▸ 0...450 V
Current range	AC 0...1 A ▸ 0...5 A
Filter selection	Floating floating arithmetic average of the number of measured values Exponential integration filter of the first order with a time constant measurement
Filtr constant	Indicates the size of the filter

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the recorder is disconnected from the power supply!

1. Remove the recorder's back cover and break off the plugs covering the position where you intend to insert the new card. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from its shipping container and from the ESD packaging and slide it carefully into the selected slot until you feel a gentle click
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

IN.10
TECHNICAL DATA

INPUTS

Number		2, isolated		
AC	Range	0 ...1 A	< 150 mV	1
		0...5 A	< 150 mV	1
		0...120 V	> 2 MΩ	2
		0...250 V	> 2 MΩ	2
		0...450 V	> 2 MΩ	3
	Input frequency	0...400 Hz for amplitude from 50 V		
	Measured quantities	Voltage (V_{RMS}) Current (A_{RMS}) Active power (P) Frequency (Hz) Reactive power (Q) Apparent power Phase shift Power factor		

TECHNICAL SPECIFICATION

TC	50 ppm / °C	
Accuracy	±0,3 % of range (valid for 10 measur./s)	
Rate	<1 period 10 period	Voltage, Current, Frequency, Power factor Active/Reactive/Apparent power
Overload capacity	10x (t < 100 ms) not for 5 A and 250 V, 2x (long term)	
Digital filters	Floating average, Exponential average	
Watch-dog	reset after 500 ms	
Calibration	at 25°C and 40 % r.h.	

POWER SUPPLY

Power supply	5 VDC, 24 VDC
Consumption	max. 2,5 W

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

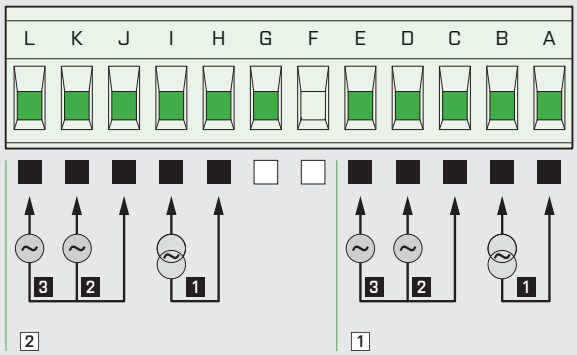
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm²
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs 1 kVAC over 1 min between inputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input / Bus - 300 V (PI), 150 (DI) Input / Input - 150 V (PI), 100 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

IN.10
CONNECTION

IN.10



1 **AC - I:** 0...1/5 A

2 **AC - U1:** 0...120/250 V

3 **AC - U2:** 0...450 V

IN.10
ORDER CODE

IN.10		-☐
Specifications	Used only for customised versions	00

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