

IN.15

3-PHASE WATTMETER



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AC 0...250 V
0...1 A / 0...5 A
50/60 Hz

Measured quantities

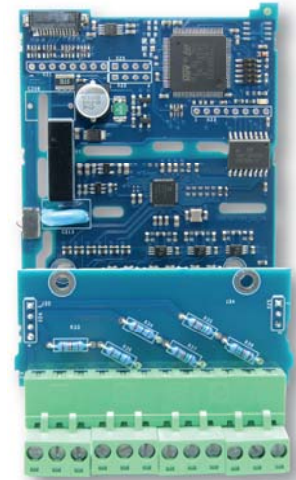
Voltage, Current, Active power, Reactive power, Apparent power, Frequency, Harmonic distortion, Phase shift, Power factor

Rate

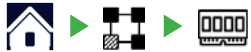
1/10 periods

Accuracy

0,3 % of range



CARD SETTINGS



The following parameters are edited in the setting

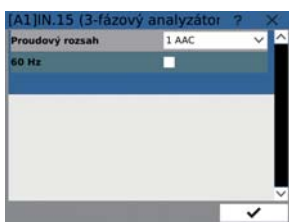
Select the **Position of the card** to be set. Use buttons ◀ ▶ to scroll among the fitted cards.

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

| | | |
|---------------|-------------------------------------|-------------------|
| Voltage range | AC | 0...250 V |
| Current range | AC | 0...1 A ▶ 0...5 A |
| Frequency | <input checked="" type="checkbox"/> | 50 Hz |
| | <input type="checkbox"/> | 60 Hz |



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

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

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TECHNICAL DATA

INPUTS

| | | | |
|---------------------|---|-----------|-------------------|
| Number | 2, isolated | | |
| | 3 | | |
| AC | Range | 0...1 A | < 150 mV 1 |
| | | 0...5 A | < 150 mV 2 |
| | | 0...250 V | > 1 MΩ |
| Input frequency | 50/60 Hz for amplitude from 50 V | | |
| Measured quantities | Voltage (V_{RMS}) Current (A_{RMS}) Active power (P) Frequency (Hz) Reactive power (Q) Apparent power Harmonické zkreslení Phase shift Power factor | | |

TECHNICAL SPECIFICATION

| | |
|-------------------|--|
| TC | 50 ppm/°C |
| Accuracy | ±0,3 % of range (valid for 5 measur./s) |
| Rate | 10 periods |
| Overload capacity | 10x (t < 100 ms) not for 5 A and 250 V, 2x (long term) |
| Watch-dog | reset after 500 ms |
| Calibration | at 25°C and 40 % r.h. |

POWER SUPPLY

| | |
|--------------|---------------|
| Power supply | 5 VDC, 24 VDC |
| Consumption | max. 150 mA |

MECHANIC PROPERTIES

| | |
|--------------|------------|
| Dimensions | 65 x 98 mm |
| Installation | to OMR 700 |

OPERATING CONDITIONS

| | |
|------------------------|--|
| Connection | connector terminal board, cross section < 2,5 mm ² |
| 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 - 300 V (PI), 150 (DI) |
| EMC | EN 61326-1 (Industrial use) |
| Seismic resistance | IEC 980: 1993, par.6 |

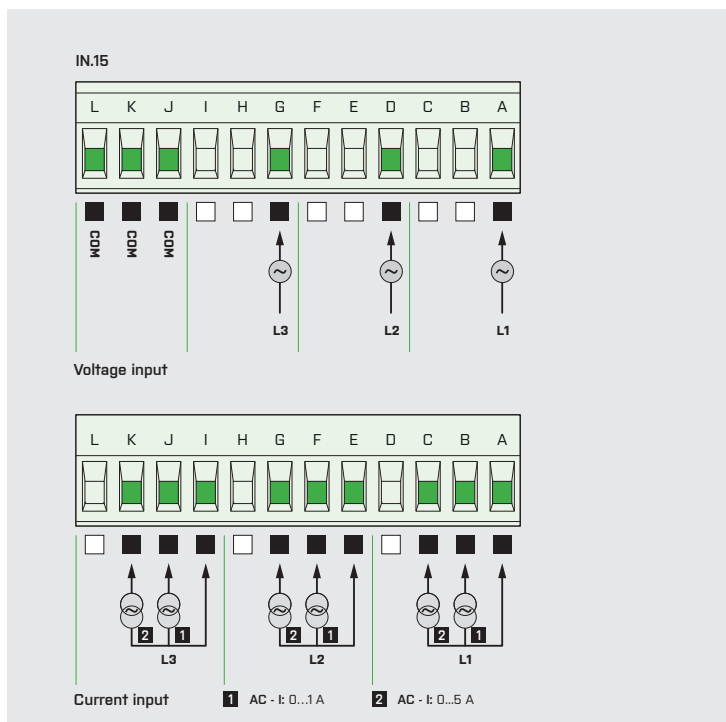
* PI - Primary insulation, DI - Double insulation

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CONNECTION

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ORDER CODE



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Specifications

Used only for customised versions



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