

PRODUCT PROFILE



ORDER INFORMATION

ProductOutputsCertificationRI-70-100-PPulseŒ MID

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SAFETY PRECAUTIONS

Safety related notification, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of personnel as well as the instrument.

If the equipment is not used in a manner specified by the manufacturer it may impair the protection provided by the equipment.

- Do not use the equipment if there is any mechanical damage
- Ensure that the equipment is supplied with correct voltage
- No repairs, maintenance or adjustments are possible

CAUTION

- 1. Read complete instruction prior to installation or operation of the unit.
- 2. Risk of electric shock. Only to be installed by competent personnel.
- The equipment in its installed state must not come into close proximity to any heating sources, oils, steam, caustic vapours or other unwanted process byproducts.

<u>(1)</u>

WIRING GUIDELINES

- To prevent the risk of electrocution, always isolate the power supply to the
 equipment prior to undertaking any work. Always confirm absence of supply
 prior to starting work using appropriate voltage detection equipment.
- Wiring shall be done strictly according to the terminal layout. Confirm that all connections are correct before energizing the equipment.
- To reduce electromagnetic interference use of wires with adequate ratings and twists of equal size are recommended. All connection should be kept as short as possible.
- 4. Routing of connecting cables shall be away from any internal EMI sources.
- Cables used for power connections must have a cross section of 2.1mm² to 33.6 mm² (14 to 2 AWG: 75°C min).
- 6. Copper cable should be used (stranded or solid core cable).
- 7. All wiring to be in accordance with applicable local standards.

SPECIFICATION

Display : Liquid crystal display with backlight

Display Update Time : 1 sec for all parameters

 $\begin{array}{lll} \mbox{Display Scrolling} & : & \mbox{Automatic} \\ \mbox{Wiring Input} & : & 3 \mbox{\it 0} - 4 \mbox{wire} \\ \mbox{Installation Category} & : & \mbox{CAT III} \end{array}$

Mounting : DIN rail mounting

Meter Type : Indoor

Voltage : 3 x 230/400 VAC

Voltage Range : 3 x 161/279 to 300/500 VAC

 Max Current
 : 100 A

 Frequency
 : 50 Hz ± 10%

 Accuracy Class
 : EN50470-3: Cl.B

 Voltage Withstand
 : 2 KV AC for 1 minute

 Voltage Surge
 : 6KV for 1.2uS

Withstand

Current Withstand : 30 Imax for 10mS

Power Consumption : ≤2W / 10VA per phase

Temperature : Operating: -25°C to 55°C / Storage: -30°C to 70°C

Humidity : Operating 75% / Storage 95%

IP Rating : IP51

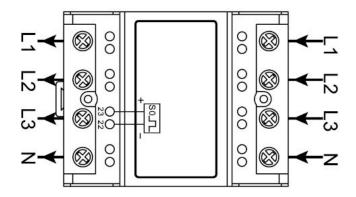
Communications : Pulse output - 400 imp/KWh

Enclosure Material : Front Panel: PC inflammable retarding

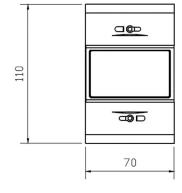
Cover/Base: ABS inflammable retarding

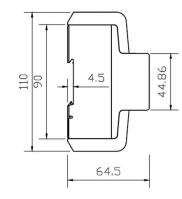
The meter is intended to be installed in Mechanical Environment 'M1', with shock and vibrations of low significance, as per 2004/22/EC Directive. The meter is intended to be installed in Electromagnetic Environment 'E2', as per 2004/22/

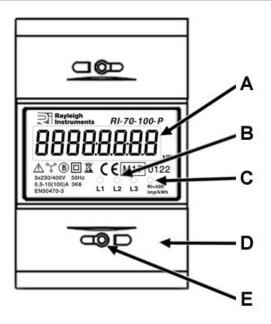
WIRING DIAGRAM



DIMENSIONS





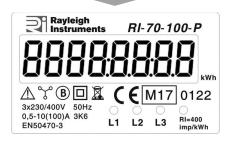


- A 8 Digits (6+2) LCD Display
- **B** Consumption Indicators (L1 / L2 / L3)
- C Pulse Output Indicator
- **D** Terminal Covers
- E Security Hasp
- L1 Yellow = Phase A current ON
- L2 Green = Phase B current ON
- L3 Red = Phase C current ON

OPERATION

DECLARATION OF CONFORMITY

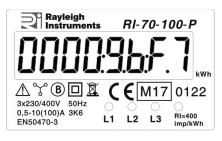




Screen 1

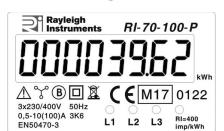
Start Up





Screen 2

Software Version



Screen 3

KWh Reading



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has: 01345-496509

Email: cal.s© .g e gi ...o.uk Web: =www.nokigl.coms

DECLARATION OF CONFORMITY

According to Directive 2014/32/EU

EC Type Examination Certificate Number: T11065 MID Annex B Issued by: NMi Certain B.V Report Number NMi-15200659-03

Product : Three Phase Energy Meter Model No. : RI-70-100-P / RI-70-100-A

Rating : 100A

The test sample has been tested in accordance with the requirements of:

Standards; EN 50470-1 EN 50470-3

The technical documentation required to demonstrate that the products meet the requirements of the above EU directives have been compiled and are available for inspection by relevant enforcement authorities.

The fulfilment of the essential requirements set out in Annex I and in the relevant instrumentspecific Annexes has been demonstrated.

This declaration of conformity is issued under the sole responsibility of the manufacturer. The object of the declaration described above is in conformity with the relevant Union harmonization legislation.







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