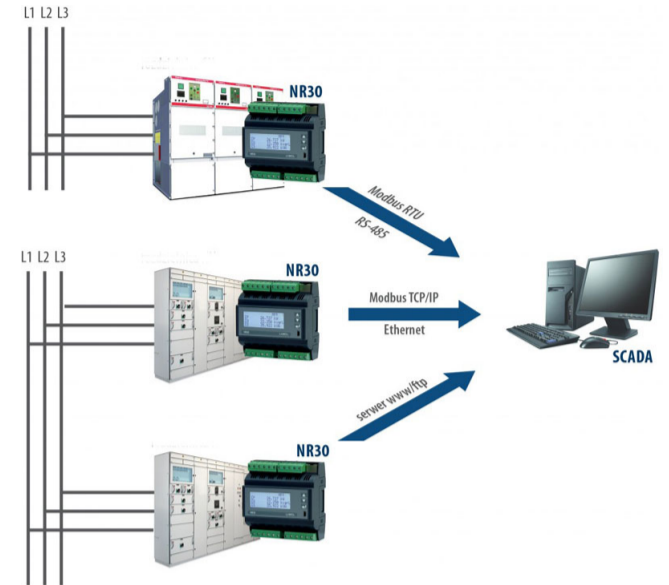
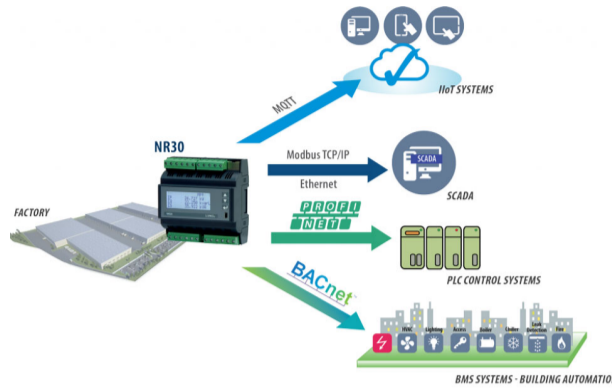


Power Indicator PCE-NR30IoT



Power indicator up to 63 A for Top-Hat DIN rail mounting / 1 and 3-phase measurement / memory / Ethernet / LC display / alarm relay / Modbus RTU, TCP / HTTP and FTP function / MQTT protocol for Industry 4.0 applications

The power indicator PCE-NR30 is able to measure currents directly up to 63 A AC. The power indicator can also be used with the aid of $x / 1A$ or $x / 5A$ current transformers. The power indicator measures network parameters of symmetrically and asymmetrically loaded single-phase 2-wire systems and three-phase 3 or 4-wire systems. The PCE-NR30 power indicator is also able to measure harmonics up to the 51st order. The power indicator impresses with its high accuracy class of 0.2s. Thus, the indicator meter is also suitable for demanding measurement and research tasks. The display always provides information about all network parameters and the maximum and minimum measured values can be shown directly at the push of a button. Two adjustable alarm outputs round off the overall package of the power indicator. Optionally, the power indicator can be expanded by 4 x 4 ... 20 mA or 0 ... 10 V outputs via the PCE-S4AO module.

The power indicator is mounted on the top hat rail and is built according to EN62208. An RS485 and an Ethernet interface are available as standard. The interface is accessed via Modbus RTU or Modbus TCP. It is also possible to read out the power indicator via HTTP request or via FTP. The power indicator can be set using the buttons on the front or via the USB interface using the programming software.

- ▶ Measurement of 54 network parameters
- ▶ 1-phase 2-wire or 3-phase 3- or 4-wire symmetrical and asymmetrical measurement
- ▶ Accuracy class 0.2s
- ▶ Illuminated LC display
- ▶ Direct measurement up to 63A and indirect measurement via current transformer ($x / 1A$ or $x / 5A$)
- ▶ Scaled display when measuring with the aid of current transformers
- ▶ Storage of minimum and maximum values
- ▶ 2 configurable alarm outputs
- ▶ Optional analog outputs
- ▶ RS485 Modbus RTU interface
- ▶ Ethernet interface Modbus TCP / HTTP / FTP / **MQTT protocol for Industry 4.0 applications**
- ▶ 8 GB memory
- ▶ Configuration by software
- ▶ DIN rail mounting

Specifications

Technical Data

Measuring range

Current (class 0.2)

1 A AC

5 A AC

63 A AC

0.1 ... 1.2 A

0.5 ... 6.0 A

0.1 ... 70 A

max. display range: 100kA

Voltage L-N (class 0.2)

57.7 V AC

100 V AC

230 V AC

400 V AC

11.5 ... 70 V

20 ... 120 V

46 ... 276 V

80 ... 480 V

max. display range: 480 kV

Voltage L-L (class 0.5)

100 V AC

170 V AC

400 V AC

690 V AC

20 ... 120 V

34 ... 204 V

80 ... 480 V

138 ... 830 V

max. display range: 830 kV

Active power (class 0.5)

± 1999.9 W

max. display range: ± 1999.9 MW

Reactive power (class 1)

± 1999.9 Var

max. display range: ± 1999.9 MVar

Apparent power (class 0.5)

0 ... 1999.9 Va

max. display range: 0 ... 1999.9 MVA

Active energy (class 0.2s)

± 1999.9Wh

max. display range: ± 1999.9 MWh

Reactive energy (class 1)

± 1999.9 Varh

max. display range: ± 1999.9 MVarh

Apparent energy (class 0.5)

0 ... 1999 VAh

max. display range: 0 ... 1999.9 MVAh

Active power factor

-1 ... 1

Coefficient tg

-999.99 ... 999.99

Frequency

45 ... 65 Hz

Harmonic distortion

0 ... 100 %

Harmonics current and voltage up to the 51st order

0 ... 100 %

Additional Technical Data

Relay output

2 x relays (250 V / 0.5 A AC or 30 V / 5 A)

USB

USB 1.1 / 2.0

Modbus RTU

8N2, 8E1, 8O1, 8N1

RS485 interface

Address: 1 ... 247

Baud rate: 4800, 9600, 19200, 38400,

57600, 115200

Ethernet 10/100

protocols: TCP, HTTP, FTP, **MQTT**

Display

20 x 4 LCD lines with lighting

Dimensions

105 x 110 x 60 mm

More information

CE Certificate



More product info



Similar products



Subject to change

Weight	300 g
Protection class	Front: IP50 Connection side: IP00
Power supply	85 ... 253 V AC / 90 ... 300 V DC 20 ... 40 V AC / 20 ... 60 V DC
Power consumption	6 VA
Power loss	Voltage side: 0.5 VA Current side: 0.1 VA (1/5 A) / 2 VA (63 A)
Heating time	5 minutes
Operating conditions	-10 ... 55 °C / 0 ... 95 % r.H.
Operating position	any
Overload	Voltage: 2 x Un (5 seconds) Current: 50 A at 1/5 A (1 second) 630 A to 63 A (1 second)
Electromagnetic compatibility	EN 61000-6-2 EN 61000-6-4
Housing insulation	double according to EN61010-1
Degree of pollution	2
Installation category	III
Operating conditions	-10 ... 55 °C / 0 ... 95 % r.H.

Subject to change

