Power Indicator PCE-ND20

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The PCE-ND20 built-in power meter measures 3-phase all network parameters. Power, voltage, and power measurements are no problem for the PCE-ND20 built-in power meter. The current measurement can be done with the built-in power measuring device 3-phase and directly. However, it is also possible to measure high currents by means of transducers using the built-in power meter PCE-ND20. The voltage measurement takes place directly up to 480 V (phase to phase). The PCE-ND20 built-in power meter is only suitable for operation in 3-phase networks. All measured parameters are shown by the PCE-ND20 built-in power meter on the large, illuminated display. The user can scroll through the parameters via the front-panel keys and make all relevant settings for measurements with the built-in power meter. The voltage supply to the display is via a separate connection of the power indicator. The PCE-ND20 built-in power meter has an alarm relay which can be set freely by the user. In addition, the power meter has an analog, programmable 4 ... 20-mA output. Via the Modbus RTU interface, all measured parameters can be integrated into the Modbus network by the power meter. The installed pulse output can be used to connect the PCE-ND20 built-in power meter to a separate energy meter / current meter. The front of the PCE-ND20 built-in power meter is protected to IP67. The PCE-ND20 built-in power meter is installed in switchboards. The cut-out is 92 x 92 mm / 3.6 x 3.6 in. The dimensions of the front of the built-in power meter are 96 x 96 mm / 3.8 x 3.8 in.

- Panel panel cutout 92 x 92 mm / 3.6 x 3.6 in
- Measurement of U, I, F, P, Q, S, PF ...
- Supply via measuring voltage
- Alarm function
- Detection of wrong phase sequence
- Impulse output of the active energy
- Separate power supply
- IP 65 on the front
- Illuminated 3.5" LCD display
- Easy installation
- RS485 Modbus interface

Subject to change

Specifications

Measured parameter / Display area / Measuring range / Accuracy

1 A (Electricity in) / 0.00 ... 1500 A / 0.005 ... 1.2 A AC / ± 0.2% of the measuring range

5 A (Electricity in) / 0.00 ... 60000 A / 0.025 ... 6 A AC / ± 0.2% of the measuring range

57.7 V (Voltage LN) / 0.0 ... 1.012 MV / 195 ... 253 V AC / ± 0.2% of reading

230 V (Voltage LN) / 0.0 ... 1.200 MV / 246 ... 300V AC / ± 0.2% of reading

100 V (Voltage LL) / 0.0 ... 1.752 MV / 340 ... 440 V / ± 0.5% of reading

400 V (Voltage LL) / 0.0 ... 2,000 MV / 425 ... 520 V / ± 0.5% of reading

Frequency / 47.0 ... 63.0 Hz / 47.0 ... 63.0 Hz / ± 0.2% of reading

Wealth / -9999 ... 9999 MW/ -1.52 kW ... 1.52 kW / ± 0.5% of the measuring range

Reactive power / -9999 ... 9999 Mvar / -1.52 ... 1.52 Mvar / ± 0.5% of the measuring range

Apparent power / 0.00 VA ... 9999 MVA / 1.0 VA ... 1.52 VA / ± 0.5% of the measuring range

Power factor PF/ -1 ... 1/ - 1 ... 1/ ± 1% of the measuring range

Tan φ / -1.2 ... 1.2 / -1.2 ... 1.2 / ± 1% of the measuring range

Cos φ / -1 ... 1 / -1 ... 1 / ± 1% of the measuring range

Φ/ -180 ... 180 ° / - 180 ... 180 ° / ± 0.5% of the measuring range

Energy absorbed and delivered / 0 ... 99.999.999 kWh / N/A / ± 0.5 v. Measuring range

THD / 0 ... 100% / N/A / ± 5% of the measuring range

General specifications

Relay output: 1 output, max. 250V AC / 0.5 A

Analog output: 1 programmable output, 0/4 ... 40-mA

Pulse output: O / C (NPN), class A according to EN62053-31, voltage = 18 ... 27V, current = 10 ... 27-mA

RS485 interface: Modbus RTU RTU 8N2 / 8E1 / 8 O1 / (n1), Baud rate 4800/9600/19200/38400 bit / s

Display: Monochrome 3.5" LCD, illuminated

Power supply (selectable): 20 ... 40V AC / 20 ... 60V DC, 85 ... 253V AC / 90 ... 300V DC

Environmental conditions: -20 ... 55°C / -4 ... 131°F, 25 to 95% RH

Storage conditions: - 30 ... 70°C / -22 ... 158°F, non-condensing

Standard: EN 61010-1

Dimensions: 96 x 96 x 77 mm / 3.8 x 3.8 x 3 in

Control panel cutout: 92 x 92 mm / 3.6 x 3.6 in

Weight: Approx. 300 g / < 1 lb

Protection rating: IP 65

More information

More product info

Similar products

Subject to change