Power Display Panel for System Integration PCE-ND10

Digital indicator PCE-ND10 for permanent installation / Lighted 3.5 " display / 2 alarm outputs / impulse output / Modbus RTU interface / IP 656 front / phase recognition / measurement and display of power, voltage, power rating, efficiency factor, phase angle...

The Digital indicator PCE-ND10 is able to perform current, voltage and power measurements in 3-phase systems. By using appropriate transducers, it is also possible to measure high currents and voltages with the Digital indicator. The Digital indicator PCE-ND10 was designed for panel-mounting in 92 x 92 mm panel cut-outs. The front of the device is protected against dust and splash water according to IP65. The measured values are shown on the large, lighted display of the Digital indicator. Via the Modbus RTU interface, the data can also be transferred. The alarm function of the Digital indicator allows the set up of alarm limits which trigger an alarm signal, when the value exeeds or falls below the threshold. The settings can be adjusted by using the buttons on the front of the Digital indicator.

- Power meter for panel-mounting (92 x 92 mm)
- Measurement of U, I, f, P, Q, S, PF...
- Power supply via voltage input
- Alarm function
- Recognition of false phase order
- Pulse output of active energy
- IP 65 protected front
- lighted 3.5" LC display
- Simple installation
- RS485 Modbus interface

Subject to change

Specifications

Technical specifications

current In	
1 A	Display range: 0.00 ... 1500 A Measuring range: 0.005 ... 1.2 A AC Accuracy: ±0.2 % of measuring range
5 A	Display range: 0.00 ... 60000 A Measuring range: 0.025 ... 6 A AC Accuracy: ±0.2 % of measuring range
Voltage L-N	
230 V	Display range: 0.0 ... 1.012 MV Measuring range: 195 ... 253 V AC Accuracy: ±0.2 % of measured value
290 V	Display range: 0.0 ... 1.200 MV Measuring range: 246 ... 300 V AC Accuracy: ±0.2 % of measured value
Voltage L-L	
400 V	Display range: 0.0 ... 1.752 MV Measuring range: 340 ... 440 V Accuracy: ±0.5 % of measured value
500 V	Display range: 0.0 ... 2.000 MV Measuring range: 425 ... 520 V Accuracy: ±0.5 % of measured value
Frequency	Display range: 47.0 ... 63.0 Hz MV Measuring range: 47.0 ... 63.0 Hz Accuracy: ±0.2 % of measured value
Active power	Display range: -9999 ... 9999 MW Measuring range: -1.52 ... 1.52 kW Accuracy: ±0.5 % of measuring range
Reactive power	Display range: -9999 ... 9999 Mvar Measuring range: -1.52 ... 1.52 Mvar Accuracy: ±0.5 % of measuring range
Apparent power	Display range: 0.00 VA ... 9999 MVA Measuring range: 1.0 VA ... 1.52 VA Accuracy: ±0.5 % of measuring range
Power factor PF	Display range: -1 ... 1 Measuring range: -1 ... 1 Accuracy: ±1 % of measuring range
Tan φ	Display range: -1.2 ... 1.2 Measuring range: -1.2 ... 1.2 Accuracy: ±1 % of measuring range
Cos φ	Display range: -1 ... 1 Measuring range: -1 ... 1 Accuracy: ±1 % of measuring range
φ	Display range: -180 ... 180 ° Measuring range: -180 ... 180 ° Accuracy: ±0.5 % of measuring range
Absorbed active energy	Display range: 0 ... 99,999,999 kWh Accuracy: ±0.5 % of measuring range
Released active energy	Display range: 0 ... 99,999,999 kWh Accuracy: ±0.5 % of measuring range

More information

Manual

More product info

Similar products

Subject to change

Released reactive energy	Display range: 0 ... 99,999,999 kWh Accuracy: ±0.5 % of measuring range
THD	Display range: 0 ... 100 % Accuracy: ±5 % of measuring range

General technical specifications

Relay output	2 outputs max. 250 V AC / 0.5 A
Impulse output active power	O/C (NPN) class A according to EN62053-31 voltage 18 ... 27 V current 10 ... 27 mA
RS485 interface	Modbus RTU 8N2 / 8E1 / 8O1 / 8N1 Baud rate 4800 / 9600 / 19200 / 38400 bit/s
Display	monochrome 3.5" LCD, lighted
Supply voltage from L3	195 ... 253 V AC / 47 ... 62 Hz 246 ... 300 V AC / 47 ... 62 Hz
Operating conditions	-20 ... 55 °C / 25 ... 95 % RH
Storage conditions	-30 ... 70 °C / non-condensing
Electrical safety	EN 61010-1
Dimensions	96 x 96 x 77 mm
Panel cut-out	92 x 92 mm
Weight	~ 300 g
Protection class	IP65