# Process displays
## Analog measured value input, 2 limits
## Large 14 mm LED display, 6-digits, programmable

## PCD41



PCD41 - Process display

### Features

– **Process display**
– **Display 6-digits**
– **Connection: One-channel analog sensor**
– **Two limits as relay output**
– **With peak value memory**
– **Interface RS232 or RS422/RS485**

### Description

PCD41 is a display for measured values which signals are available as voltage or DC current. The operator is aligning the display by means of the front keypad. Two optional limits "P1" and "P2" that can be assigned at will allow production process control. Furthermore there is an electronic peak value memory (slave pointer).

### Technical data - electrical ratings

| | |
|---|---|
| Voltage supply | 24/48 VAC ±10 % (50/60 Hz) 115/230 VAC ±10 % (50/60 Hz) 12...30 VDC |
| Power consumption | 6 VA, 4 W |
| Sensor supply | 12...26 VDC / max. 80 mA |
| Display | LED, 7-segment display |
| Number of digits | 6-digits |
| Digit height | 14 mm |
| Function | Digital display of 1 analog measured value |
| Analog input | 0(2)...10 V, 0(4)...20 mA Resolution 12 bit Temp. coeffic. typ. ±20 ppm/°C |
| Programmable parameters | Analog input Limits Control inputs Calculating functions Offset (maximum and minimum analogue limit) |
| Limits | Without, 2 |
| Input logic | PNP |
| Control inputs | 2 Inputs |
| Control functions | Hold, Reset, Keylock, etc. |
| Data memory | >10 years in EEPROM |
| Outputs relay | Normally open or closed, programmable |
| Interfaces | RS232, RS422, RS485 |
| Standard DIN EN 61010-1 | Protection class II Overvoltage category II Pollution degree 2 |
| Emitted interference | DIN EN 61000-6-3 |
| Interference immunity | DIN EN 61000-6-2 |

### Technical data - mechanical design

| | |
|---|---|
| Ambient temperature | 0...+50 °C |
| Storage temperature | -20...+70 °C |
| Relative humidity | 80 % non-condensing |
| Core cross-section | 1.5 mm² |
| Protection DIN EN 60529 | IP 65 (face with seal) |
| Operation / keypad | Membrane with softkeys |
| Housing type | Built-in housing |
| Dimensions W x H x L | 96 x 48 x 124 mm |
| Cutout dimensions | 92 x 44 mm (-0.6) |
| Mounting depth | 124 mm |
| Mounting | Clip frame for built-in housing |
| Weight approx. | 350 g (AC), 250 g (DC) |
| Material | Housing: Makrolon 6485 (PC) |

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## Part number

**PCD41.** ☐ ☐ ☐ **PX01**

Voltage supply
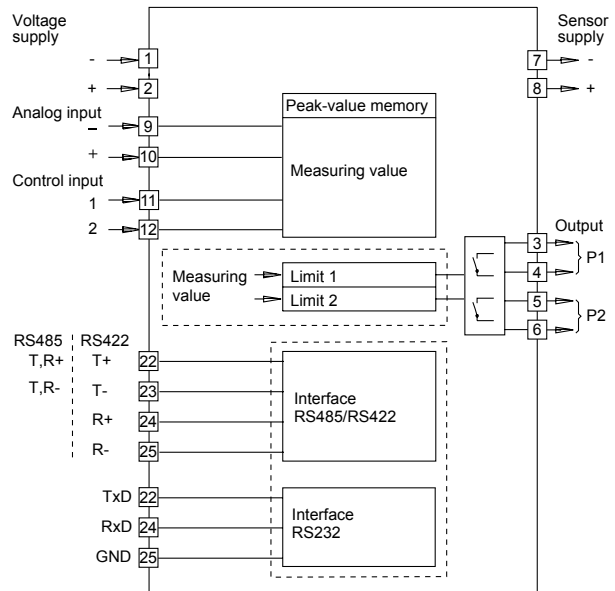1    24 / 48 VAC
2    115 / 230 VAC
3    12...30 VDC

Inputs / outputs
0    0...10 V / no limits
1    0...20 mA / no limits
2    0...10 V / with limits
3    0...20 mA / with limits
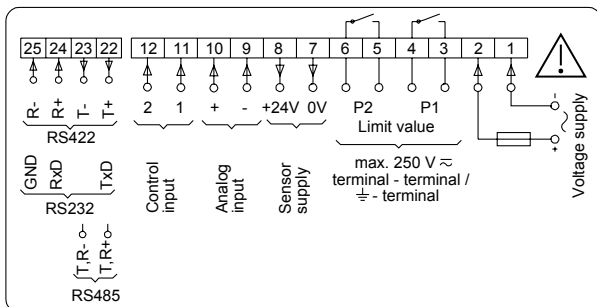
Interface
0    Without interface
1    RS422 / RS485
2    RS232

## Connection diagram



## Block circuit diagram



## Trigger level

| Comparator inputs | Input circuit |
|---|---|
| Control inputs | PNP-logic |
| Input level | Programmable |
| Input level Low | 0...2 VDC |
| Input level High | 3...40 VDC |
| Input resistance | 3 kΩ |

| Relay outputs | Output circuit |
|---|---|
| Switching voltage max. | 250 VAC / 110 VDC |
| Switching current max. | 1 A |
| Switching capacity max. | 150 VA / 30 W |
| Relay responding time | 5 ms |

## Dimensions