

## Temperature display for Pt100 CUB5RT



- Programmable input for Pt100
- adjustable offset
- 5-digit, 12 mm high brilliant LCD or red backlit display
- IP65 protection class
- easily programmable via front keys
- Unit: °C or °F , resolution: 1° or 0.1°
- Optional interface + alarm outputs

<https://www.wachendorff-prozesstechnik.de/en/CUB5RT>

### Description

The CUB5RT is an inexpensive temperature display for Pt100. It is easily programmed via the two front buttons or via software and was developed for harsh industrial environments. It is typically used where temperatures are displayed on site, e.g. industrial dishwashers, heating systems, food and film packaging machines and in the chemical industry.

### Product details

Display	5-digit, 12 mm high LCD, standard or with red/green switchable and dimmable backlight.
Error messages:	Sensor break: OPEN Underrange: ULUL Measuring range exceeded: LOL Exit display range: ...../-.....
Keys	SEL: Step to the next program section, save the programming or select the enabled display. RST: Change the parameters in the programming or reset the minimum/maximum value or alarm output.
Entrance	Pt100 in 2-, 3-wire.
Offset:	Programmable from -999 to +9999
Response time:	500 ms
Resolution:	1 °C/F or 0.1 °C/F
Protection:	30 VDC input voltage
User input:	USER INPUT: Low active, delay time: 50 ms for disable function, typ. 5 ms for all other functions. Programmable function (see programming). $V_{ILmax} = 1.0 V, V_{IH min} = +2 \cdot 4 V, V_{max} = +28V$
Relay output card with switching output (option):	Type: Form-C relay, 1A at 30 VDC or 0.3 A at 125 VAC. Closing and opening delay: 4 msec. max.
Transistor output card (option):	2 outputs type: NPN Open Drain MOSFET without galvanic isolation, 100 mA max., max. 30 Volt.
Sectional map:	RS232 half-duplex (not isolated) 300 to 38,400 baud RS485 transmission delay 2 to 50 msec. adjustable. 300 to 38,400 baud, up to 32 devices in the loop (not isolated). Address 0 to 99

Programming:	Programming is carried out using the two front buttons. The simple and logically structured menu navigation allows very fast commissioning. Access rights can also be assigned.
Data backup:	EEPROM, minimum storage time 10 years.
Protection class:	Water jet-proof and dustproof to IP65 from the front.
Power supply	9 to 28 VDC, standard LCD: max. 40 mA, with backlight max. 125 mA. 230 VAC supply via directly screw-on power supply unit (see accessories).
Housing	Plastic housing W 75 mm x H 39 mm x D 44 mm. Panel cut-out: DIN 68 mm x 33 mm. Fastening via mounting frame.
Connection	Via screw terminals.
Ambient conditions	Standard LCD: -35 °C to +75 °C Backlit LCD display: -35 °C to +35/75 °C (depending on the intensity of the display) Storage: -35 °C to +85 °C.
Weight:	approx. 100 g.
Scope of delivery:	Device, fixing material, seal, operating instructions.
Accessories	Power supply unit for 85 to 250 VAC/ 12 VDC, 400 mA.
Customs tariff number:	9032 89 00

### Products Order no.

CUB5RTR0	Standard LCD
CUB5RTB0	red/green backlit LCD

### Accessories Order no.

BMK11000	DIN rail adapter for CUB5 series and MLPS
CUB5COM1	RS485 serial interface
CUB5COM2	Serial interface RS232
CUB5RLY0	Relay output card (option)
CUB5SNK0	Transistor output card
CUB5USB0	USB interface
KABUSB21	USB cable, USB 2.0 A to USB 2.0 B, 1.8 m length

ENC80000	Steel housing, W: 114 mm x H: 101 mm, D: 89 mm
ENC8A000	Plastic housing, W: 130 mm x H: 80 mm, D: 77 mm
ENC8B000	Plastic housing, W: 120 mm x H: 122 mm, D: 96 mm for devices with power supply unit
MLPS1000	MPLS power supply unit Input: 85 VAC to 250 VAC Output: 12 VDC, max. 400 mA
MLPS2000	MPLS power supply unit: Input 85 VAC to 250 VAC Output: 24 VDC, max. 200 mA



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