

Temperature display for thermocouples CUB5TC



- Programmable input for thermocouples
- Thermocouple type: S, T, J, N, K, E, R, B, -10 to + 60 mV
- Adjustable offset
- 5-digit, 12 mm high brilliant LCD or red backlit display
- IP65 protection class
- Easily programmable via front keys or optionally via software
- Unit: °C or °F , resolution: 1° or 0.1°

<https://www.wachendorff-prozesstechnik.de/en/cub5tc>

Description

The CUB5TC is an inexpensive temperature display for thermocouples. It is programmed via the two front buttons or optionally 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. The display is available as a standard LCD or with red/green backlighting. Thanks to the minimum and maximum value memory and the optional upgrade with up to 2 switching outputs and interface (programming via software possible), the CUB5TC has a very good price/performance ratio.

Product details

Display	5-digit, 12 mm high LCD, standard or with red/green switchable and dimmable backlight.
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	Thermocouple type: S, T, J, N, K, E, R, B, -10 to + 60 mV
Offset	Programmable from -999 to + 9999
Response time	500 ms
Resolution	1 °C/F or 0.1 °C/F
Protection	30 VDC between TC+ / TC-, 3 VDC between TC- / ground.
User input	Low-active, delay time: 50 mSec for activation or deactivation, typ. 5 mSec for all other functions. Programmable function (see programming). $V_{ILmax} = 1.0 V, V_{IHmin} = +2.4 V, V_{max} = +28 V$
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.

Interface card (option)	RS232: Half-duplex (not isolated) 300 baud to 38400 baud. RS485: Transmission delay 2 mSec./min. or 50 mSec./min. adjustable. 2-wire/half-duplex (non-isolated), 300 baud to 38400 baud, up to 32 devices in the loop. Address 0 to 99. USB: Virtual COM port Baud rate: 300 baud to 38.4 kbaud. Connection type B, address: 0 to 99
Programming	Programming is carried out via the two front buttons or via software (only with interface card). The simple and logically structured menu navigation allows very fast commissioning. Access rights can also be assigned.
Data backup	EEPROM
Protection class	Jet-proof and dust-tight to IP65 from the front.
Power supply	9 - 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.
Customs tariff number:	9032 89 00
Manufacturer	Red Lion, USA

Products Order no.

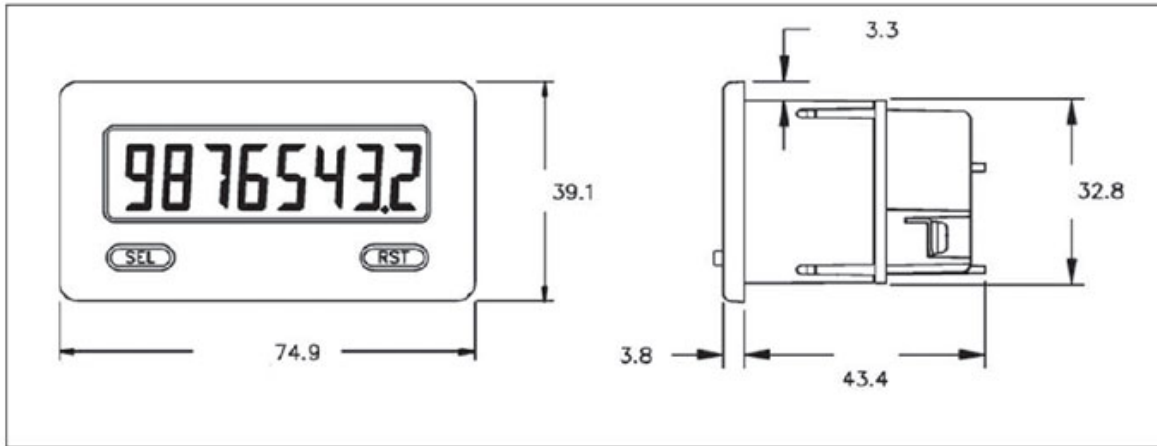
CUB5TCR0	Standard LCD
CUB5TCB0	red/green backlit LCD

Accessories Order no.

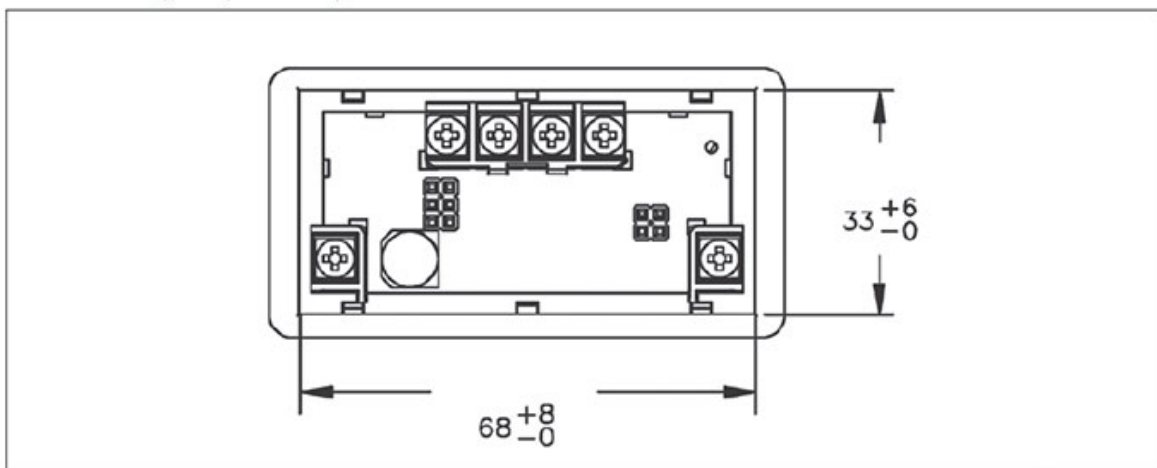
BMK11000	DIN rail adapter for CUB5 series and MLPS
CUB5COM1	RS485 serial interface
CUB5COM2	Serial interface RS232
CUB5RLY0	Relay output card (option)
CUB5SNK0	Transistor output card
CUB5USB0	USB interface
KABUSB21	USB cable, USB 2.0 A to USB 2.0 B, 1.8 m length
ENC80000	Steel housing, W: 114 mm x H: 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
PMK6A000	Adapter plate for 96 mm x 48 mm cut-out
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

Drawings

Dimensions (mm)



Abmessungen (in mm)



Rückseite (Maße in mm)



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