

Process display CUB5P



- Programmable input for process signals
- free scaling
- 5-digit, 12 mm high brilliant LCD or red/green backlit display
- front side protection class IP65
- Easily programmable via front keys or optionally via software
- Minimum and maximum value memory
- Configurable physical unit of measurement
- Optional switching output
- Optional RS232/RS485 or USB interface

<https://www.wachendorff-prozesstechnik.de/en/CUB5P>

Description

The CUB5P is an inexpensive digital display for process signals. It is programmed via the two front keys or optionally via software and was developed for harsh industrial operation. The display is available as a standard LCD or with red/green backlighting. Thanks to the free scaling, the minimum and maximum value memory, the configurable unit and the optional upgrade with up to 2 switching outputs and serial interface, the CUB5P has a very good price/performance ratio.

Product details

Display	5-digit brilliant LCD display with 12.2 mm high digits, standard LCD or with red/green switchable backlight. The intensity of the backlight can be adjusted in 5 levels.
Display area	-99999 to 99999
Entrance	1 input optionally adjustable via jumper: Current: 0/4 mADC to 20 mADC, 0 to 50 mADC Voltage: 0 VDC to 10 VDC Response time of 500 msec.
Resolution	Current: 1 µA Voltage: 1 mV
Accuracy	0.1 % of the set display range
Protection	Power supply is not galvanically isolated from the signal input. Maximum input signals: 10 VDC: 30VDC 20/50 mA: 150mA
Function inputs	User input: Low active, delay time: 50 msec. when activating or deactivating, typ. 5 ms for all other functions. Programmable function (programming inhibit etc. see programming). $V_{ILmax}=1.0\text{ V}, V_{IHmin}=+2.4\text{ V}, V_{max}=+28\text{ V}$
Indicators	Min./Max., adjustable unit
Operating modes	Min. / Max. Value memory
Relay output card with one switching output (option)	Type: Form-C relay, 1 A at 30 VDC or 0.3 A at 125 VAC. Closing and opening delay: 4 mSec. max. 100,000 switching cycles min.
Transistor output card (option)	2 outputs type: NPN Open Drain MOSFET with 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

Setting

Programming and operation via 2 front buttons (lockable) + Crimson software
SEL: Step to the next program section, save the programming or select the enabled display.

RST: Change parameters in the programming or reset minimum/maximum value or alarm output.

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.

Supply

Standard LCD display: 9 VDC to 28 VDC, max. 30 mA.
Backlit display: 9 VDC to 28 VDC, max. 125 mA.
230 VAC supply via direct screw-on power supply unit.

Ambient conditions

Operating temperature: Standard LCD: -35 °C to +75 °C,
Backlit LCD: -35 °C to +35 °C/+75 °C (depending on display intensity),
Storage temperature: -35 °C to +85 °C

Dimensions: (W x H x D)

75 mm x 39 mm x 44 mm,
Panel cut-out: DIN 68 mm x 33 mm

Assembly

Fastening via mounting frame

Connection

Via screw terminals.

Weight

approx. 100 g

Scope of delivery

Device, fixing material, seal, operating instructions.

Customs tariff number:	9030 33 70
Manufacturer	Red Lion, USA

Products Order no.

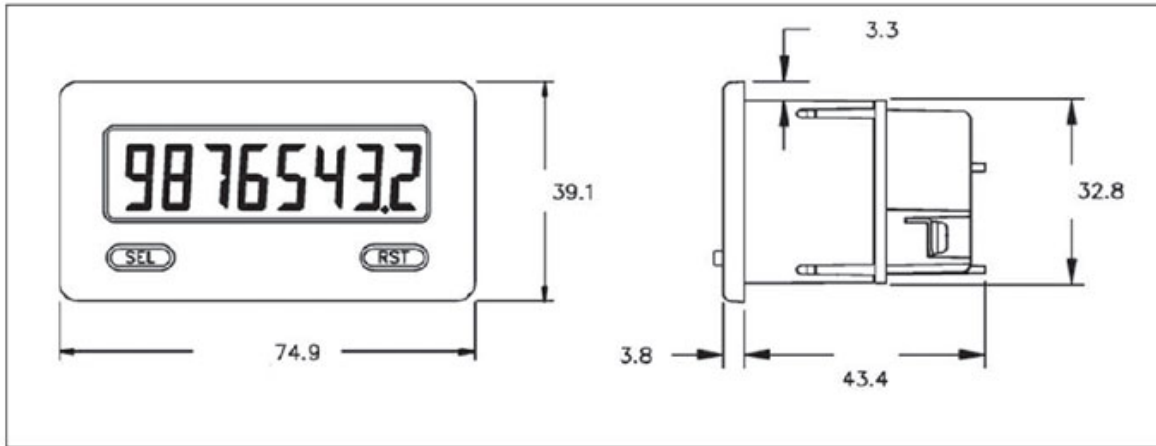
CUB5PR00	Process display with standard LCD
CUB5PB00	Process display with red/green backlit LCD

Accessories Order no.

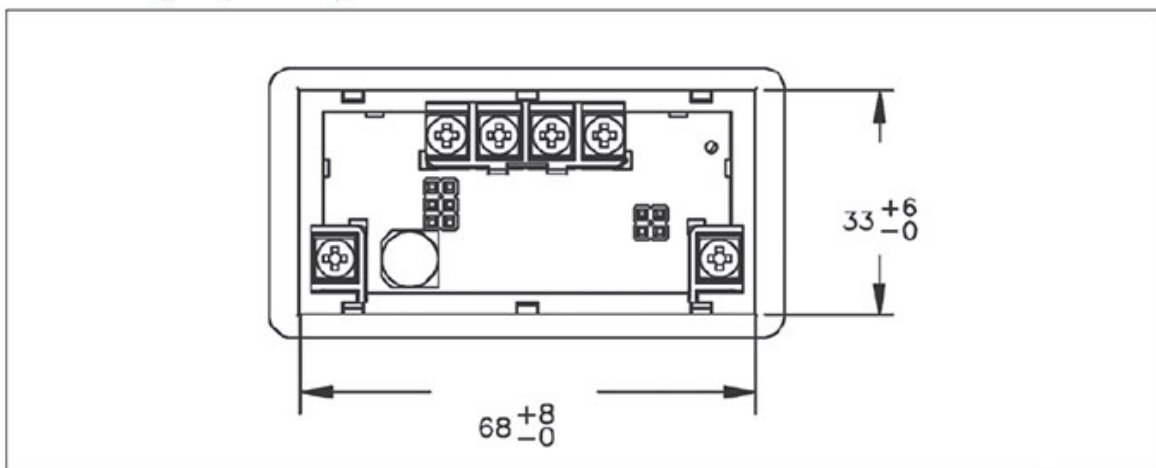
BMK11000	DIN rail adapter for CUB5 series and MLPS
CUB5COM1	RS485 serial interface
CUB5COM2	Serial interface RS232
CUB5RLY0	Relay output card (option)
CUB5SNK0	Transistor output card
CUB5USB0	USB interface
KABUSB21	USB cable, USB 2.0 A to USB 2.0 B, 1.8 m length
ENC80000	Steel housing, W: 114 mm x H: 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
MLPS2000	MPLS power supply unit: Input 85 VAC to 250 VAC Output: 24 VDC, max. 200 mA
MLPS1000	MPLS power supply unit Input: 85 VAC to 250 VAC Output: 12 VDC, max. 400 mA

Drawings

Dimensions (mm)



Abmessungen (in mm)



Rückseite (Maße in mm)



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