

COMTRAXX® CP700

Condition Monitor for Bender BMS devices and universal measuring devices



COMTRAXX® CP700



Device features

- Condition Monitor for Bender BMS devices and universal measuring devices
- 7" TFT WVGA Color Display
- · Analogue resistive touch screen
- · Small mounting depth
- · Fanless operation
- Integrated gateway to Ethernet (TCP/IP), 10/100/1000 Mbit/s
- Remote access via LAN, WAN or Internet
- Support for devices connected to the internal BMS bus via Modbus/RTU or Modbus/TCP.

Typical applications

- Clear information about device and system statuses via 7-inch touch screen
- · Specific system overview according to individual system description
- Display und visualisation of device and system statuses via web browser
- · Selective e-mail notification to various user groups in the event of alarms
- · Support of professional visualisation programs
- Observing and analysing of Bender products with communication capabilities (universal measuring devices, RCMS, Isometer, EDS systems)
- Parameter setting for devices, storing, documentation and restoring of parameters in a clear and practice-oriented manner
- Remote diagnosis, remote maintenance

Device characteristics

Scope of functions

- Display of currently measured values, operating and alarm messages from Bender BMS devices and Bender universal measuring devices on the touch screen
- Remote indication of data from Bender BMS devices and Bender universal measuring devices using a standard web browser with Silverlight plug-in
- · Time synchronisation for all BMS bus devices and Bender univeral measuring devices
- · Easy address setting via touch screen
- Fast, simple parameter setting of BMS devices using the PC's web browser.
- Report function saves measured values and settings. Saved settings can be compared with the current settings and can be reloaded.
- · Password-protected device menu
- · Assignment of individual texts for devices and measuring points (channels) and alarms
- E-mail notifications to different user groups according to a time controlled schedule in the event of alarms and system faults
- Monitoring for device failure

Access via Modbus/TCP

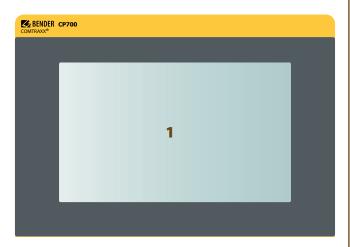
- Uniform access to all Bender devices assigned to the CP700 via the integrated Modbus/TCP server (max. 247 devices)
- Bender BMS devices can be controlled by an external application (e.g. visualisation or SPS)
 via Modbus/TCP
- Support of professional visualisation programs by the Modbus/TCP protocol

Visualisation

- Fast and easy visualisation on a personal computer without previous knowledge of computer programming. Measured values or alarms can be arranged in front of a graphic (system diagram, room plan) and displayed
- · Multipage documents supported

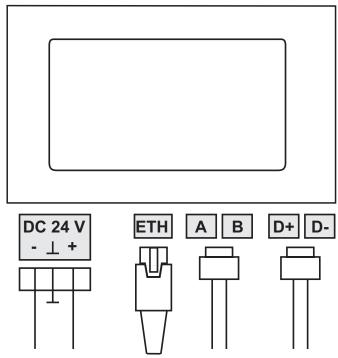
Note: The five year guarantee "5forU" does not include parts subject to wear.

Operating elements



1 - LC display with touch screen for standard and menu mode

Wiring diagram



1 - Connection to supply voltage, DC 24 V

Power

2 - RJ45 connection for connection to personal computer resp. to the local network

BMS-Bus

Modbus/RTU

RJ45

- 3 Connection BMS bus (cable included in the scope of delivery)
- 4 Connection Modbus/RTU (cable included in the scope of delivery)

Ordering information

Supply voltage/frequency range <i>U</i> s	Power consumption	Туре	Art. No.
DC			
24 V/± 25 %	typ. 11 W/max. 26 W	CP700	B 9506 1030

Recommended power supply units

Material number/type	Manufacturer	Description
0PS1025.2	B&R	DC 24 V power supply unit, 2.5 A, input AC 100240 V, DIN-rail mounting/wall mounting WxHxD: 72 x 90 x 61 mm
0PS1020.0	B&R	DC 24 V power supply unit, 2 A, input AC 100240 V, DIN rail mounting WxHxD: 45 x 99 x 107 mm
1SVR427044R0200/CP-D 24/2.5 EAN: 4016779661188	ABB	Power supply unit In: AC 100240 V Out: DC 24 V/2.5 A, DIN-rail mounting WxHxD: 71 x 91 x 57.5 mm



Technical data

Insulation coordination acc. to IEC 60664-1	
Rated insulation voltage	AC 250 \
Rated impulse voltage/pollution degree	4 kV/3
Supply voltage	
Supply voltage <i>U</i> _S	see ordering information
Frequency range U _S	see ordering informatior
Power consumption	see ordering information
Displays, memory	
Display	7" TFT WVGA Colo
LEDs	Power, CF, Link, Run, Master/Slave
Button	Power, Rese
Buzzer	no
Memory card for special device functions (CF card	
E-mail configuration and device failure monitoring	
	max. 1200 texts with 100 characters each
Devices that can be displayed	max. 247
Interfaces	
BMS bus:	
Interface/protocol	RS-485/BMS interna
Operating mode (max. one CP700 per bus)	master/slave (slave)*
Device address, BMS bus	199 (2)*
Baud rate BMS	9.6 kbit/s
Modbus/RTU:	
Interface/protocol	RS-485/Modbus/RTL
Operating mode	maste
Baud rate Modbus/RTU	9.6 kbit/s 57.6 kbit/s
Cable length	≤ 1200 m
Cable (twisted pairs, shielded, shield connected to PE on one	side) recommended: J-Y(St)Y min. 2x0.8
Connection, BMS	terminals A, E
Connection, Modbus/RTU	terminals D+, D
Terminating resistor	120 Ω (0.25 W
Ethernet:	
Connection	RJ45
Data rate	10/100/1000 Mbit/s, autodetect
DHCP	on/off (on)*
t _{off} (DHCP)	560 s (30 s)*
IP address	nnn.nnn.nnn (192.168.0.254)*
Netmask	nnn.nnn.nnn (255.255.0.0)*
Protocols	TCP/IP, Modbus/TCP, DHCP, SMTP, NTF
Additional interface protocols connecti	on to SCADA systems and/or PLC via OPC

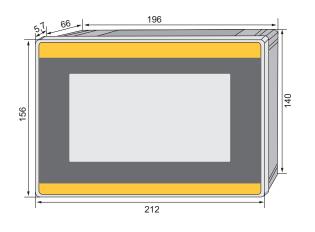
EN 61326-1
3K5
2K3
1K4
0+55 ℃
fanless
3M4
2M2
1M3
plug connectors
continuous operation
display oriented
IP65
IP20
panel mounting
199x143 mm
199x143 mm with mounting brackets
177711311111

()* = factory setting



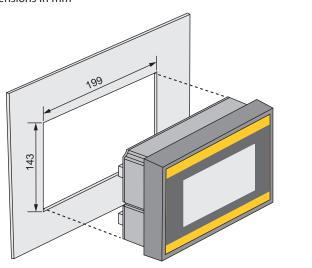
Dimension diagram

Dimensions in mm

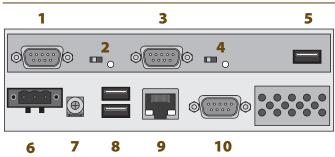


Control panel cut-out

Dimensions in mm

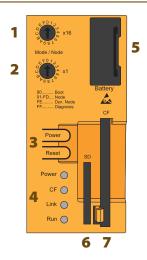


Interfaces



- 1 Interface Modbus/RTU
- 2 Switch and LED master/slave for interface Modbus/RTU
- 3 BMS bus (Bender measuring device interface)
- 4 Switch and LED master/slave for BMS bus
- **5** USB interface, without function
- 6 Connection of supply voltage, DC 24 V
- 7 Functional earth
- **8** USB interfaces, without function
- 9 Ethernet 10/100/1000, port for connection to the personal computer resp. to the local network (hub, switch, router)
- 10 RS-232 interface, without function

Rear cover



- 1 Mode/node switch x16
- 2 Mode/node switch x1
- 3 Buttons: Power, Reset
- 4 LEDs: Power, CF, Link, Run
- **5** Battery
- 6 SD memory card slot
- 7 Compact flash card slot



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