

COMTRAXX® CP9xx – Control Panel

Alarm indicator and operator panel for medical locations and other areas





for medical locations and other areas

COMTRAXX® CP9xx - Control Panel



Device features

Display size 7", 15" and 24" with

- tempered and anti-reflective glass
- · Easy to clean and to desinfect, degree of protection IP54
- · Screwless mounted front plate
- User-friendly touch-sensitive monitoring system for medical locations and other applications
- Particularly simple operation
- · Additional information for medical and technical personnel
- · Visual and acoustic notification in the event of an alarm
- Clear menu structure with self-explanatory interactive images
- Clearly marked safety functions
- Silent due to operation without fan
- · High-quality representation with excellent contrast, high resolution and a wide viewing angle
- Possibility of graphical integration of building plans or status display in photo
- Easy integration of external subsections like charging stations for operating theatre table controls and intercom systems with front foil
- Simple conversion and expansion with minimal service interruptions

Approvals and certifications





only CP907

Product description

At the interface between humans and machines, alarm indicator and operator panels play a key role. Their task consists in emitting a visual and acoustic alarm and converting information from the system into comprehensible operating and handling instructions. This applies in particular to critical operating situations. The CP9xx Control Panel offers the user a solution that meets the requirements of modern medical locations as well as industrial und purpose-built buildings.

Possible applications:

Monitoring, operation and display of:

- Medical Isolated Power Systems (IPS)
- Supply systems for medical gases
- Ventilation and air-conditioning systems
- Room lighting
- · Operating theatre lights
- Special power supply systems (BSV (battery-based safety power supply) or UPS (uninterruptible power supply)
- Further systems from different manufacturers.

Optional accessories:

The detached I/O system offers numerous options for the integration of digital and analogue I/Os with different operating voltages, power, measurement signals or special functions into the alarm indicator and operator panel.

Communication with building management systems via common interfaces, such as: Modbus TCP, Modbus RTU, Profibus, KNX, LonWorks, Sercos interface, InterBus, Dali, CANopen, EhterNet/IP, CC-Link, DeviceNet, BACnet, Profinet.

The result is an all-around system which is both modular and flexible and can thus be adjusted, expanded or connected to new technologies.

Configuration, diagnosis, service:

Each panel can be individually manufactured and tailored to the requirements of the user.

By integrating technical equipment into a single panel, a technical monitoring centre is created. It offers diagnostic options thanks to a complete system overview from a central point via a web browser, supported by data loggers and a history memory.

Parameter setting (setting limit values, entering individual customer texts, modifying the system configuration etc.) is optionally available.



Ordering details

Complete devices

Туре	Display size	Supply	Device dimensions (W x H x D)	Weight	Display unit glass, tempered	Art. No.¹)
CP907	7" (17.6 cm)	DC 24 V, < 15 W;	226 v 144 v 70 mm	1.1 kg	white	B95061080
CP907 without Flush-mounting enclosure	/ (17.0 CIII)	alternatively PoE possible	226 x 144 x 78 mm	0.9 kg	white	B95061093
CP915	15,6" (39.6 cm)	AC 100240 V, < 30 W	505 x 350 x 92 mm	6.1 kg	white	B95061081
CFFIS	13,0 (39.0 (111)	AC 100240 V, < 30 VV	303 X 330 X 92 IIIIII	0.1 kg	grey	B95061085
CP924	24" (61 cm)	AC 100240 V, < 55 W	654 x 441 x 100 mm	9.1 kg	white	B95061083
Cr 924	24 (01 (111)	(01 Cili) AC 100240 V, < 33 W 034 X 441 X 100 IIIIII	034 x 441 X 100 IIIIII	9.1 kg	grey	B95061084

¹⁾ In the offer phase the Art. No. may differ

Scope of delivery: display unit, flush-mounting enclosure incl. mounting plate with electronics, CP9xx connecting cable and plug connector kit.

Components separately

Device series	Туре	Art. No.¹¹
CP907	Flush-mounting enclosure	B95100140
CP915	Display unit white	B95061112
Cryio	Display unit grey	B95061110
(P924	Display unit white	B95061115
CF 924	Display unit grey	B95061111

¹⁾ In the offer phase the Art. No. may differ

Accessories

Description	Art. No.
CP907 surface-mounting enclosure	B95061915
CP915 surface-mounting enclosure	B22301077
CP924 surface-mounting enclosure	B22301078
CP9xx replacement plug connector kit	B95061910
CP9xx suction lifter 1)	B95061911

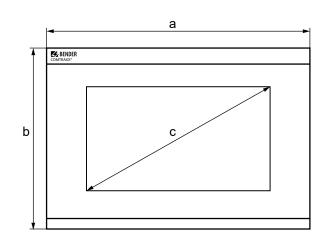
The suction lifter is needed to remove the display. For version CP915 and CP924

Other project-specific versions with foil surface or with additional internal components available on request:

- Charging tray for operating theatre table remote controls
- · Intercom systems
- · Operating theatre light controls
- Programmable backlit keypads
- Digital/Analogue inputs/outputs for installation in panel enclosures or control cabinets
- Data coupling to third-party systems
- Project-specific built-in enclosures
- Integration of third-party systems
- Antibacterial or highly transparent foil
- Exchange of existing control panels (Retrofit)
- etc.



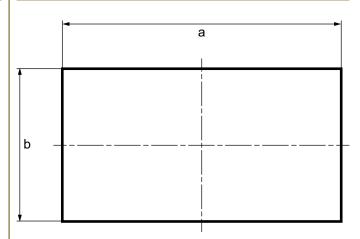
External dimensions



Type		Dimensions (mm)	
Турс	a	b	С
CP907	226	144	176 (7")
CP915	505	350	386 (15,6")
CP924	654	441	610 (24")

Glass thickness 3 mm

Installation dimensions - panel cut-out



Type	Enclosure	Dimensio	Required installation	
1,750	Lifeloguic	a	b	depth
CD007	Flush-mounting	212	124	75
CP907	Surface-mounting	299	173	-
CP915	Flush-mounting	461	306	92
CP915	Surface-mounting	511	356	120
CP924	Flush-mounting	610	398	95
	Surface-mounting	660	447	120



Technical data

Insulation coordination CP907 acc. to IEC 60664-1	Interfaces
Rated voltage 50 V	Ethernet
Overvoltage category III	Connection
Pollution degree 2	Cable
Rated impulse voltage 800 V	Cable length
Insulation coordination CP915 acc. to IEC 60664-1	Data rate
Rated insulation voltage AC 250 V	DHCP
Overvoltage category III	T _{off} (DHCP)
Pollution degree 2	IP address nnn.nnn.nnn
Rated impulse voltage 4 kV	Net mask
	Protocols (depending on func
Supply CP907 via plug-in terminal (A1/+;A2/-)	BMS bus
Nominal voltage CP907 DC 24 V SELV/PELV	Interface/protocol
Nominal voltage tolerance $\pm 20 \%$	Operating mode
Typical power consumption at DC 24 V < 15 W	Baud rate
Connection plug-in terminal (A1/+;A2/-)	Cable length
Maximum cable length when supplied via B95061210 (DC 24 V power supply unit 1.75 A):	Cable
0.28 mm ² 75 m	recommended
0.5 mm ² 130 m	alternative Connection
0.75 mm ² 200 m	
1.5 mm ² 400 m	Terminating resistor 120 Device address
2.5 mm ² 650 m	
Supply via PoE (only CP907)	BCOM
PoE standard IEEE 802.3at	Interface/protocol
Nominal voltage DC 48 V SELV/PELV	Cable length
Nominal voltage tolerance -25+15 %	BCOM system name
Typical power consumption for PoE < 15 W	BCOM subsystem address BCOM device address
Maximum cable length when supplied via AWG 26/7; 0.14 mm ² 100 m	
	USB
Supply CP915/CP924 via terminal block (L1; N)	Number Operating mode
Nominal voltage CP915 via external power supply unit AC 100 240 V	Operating mode Datarate
Nominal voltage tolerance -15+10 %	Cable length
Frequency range Us 5060 Hz	onnection type
Typical power consumption at AC 230 V < 30 W (CP915)/< 55 W (CP924)	Modbus TCP
Connection terminal block (L1; N)	
Stored energy time in the event of voltage failure	Interface/protocol Cable length
Time, date min. 3 days	Operating mode
Restart after voltage interruption min. 15 seconds	Operating mode Server
Displays, memory	SNMP
Display/Resolution	Interface/protocol
CP907 7" TFT touch display/800 x 480	Versions Devices supported (
CP915 15.6" TFT touch display/1280 x 720	
CP924 24" TFT touch display/1280 x 720 or 1920 x 1080	Trap support
E-mail configuration and device failure monitoring max. 250 entries	Modbus RTU
Individual texts unlimited number of texts with 100 characters each	Interface/protocol
Displayable devices 247	Operating mode
Number of data points for "third-party devices" to Modbus TCP and Modbus RTU 1600	Baud rate
Number of data loggers 30	Cable length Cable
Number of data points per data logger 10,000	
Number of entries in the history memory 1,000	recommended
Visualisation	alternative Connection
	Terminating resistor 120 Ω
Number of pages 50 Packground image size	Supported Modbus RTU slav
Background image size max. 3 MB	
	PROFINET Interface/protocol
	· · · · · · · · · · · · · · · · · · ·
	Operating mode

Interfaces		
Ethernet		
Connection		RJ45
Cable	shielded, shield on bo	th sides to PE
Cable length		< 100 m
Data rate	10/100 Mbit/	s, autodetect
DHCP		on/off (off)*
$T_{\rm off}$ (DHCP)	5	60 s (30 s)*
IP address nnn.n	nnn.nnn.nnn (192.168.0.254)*, can always be reached via	
Net mask	nnn.nnn.nnn (2	
Protocols (depending	g on function module selected) TCP/IP, Modbus RTU, DHG	CP, SMTP, NTP
BMS bus		
Interface/protocol	RS-485/	BMS internal
Operating mode	master/sla	eve (master)*
Baud rate		9.6 kbit/s
Cable length		< 1200 m
Cable	shielded, one end of shield cor	nected to PE
recommended	CAT6/CAT7	min. AWG23
alternative	twisted pair, J-Y(St	
Connection	"ABMS", "BBMS" (see plug	j-in terminal)
Terminating resistor		
Device address		1150 (1)*
ВСОМ		
Interface/protocol	Etl	hernet/BCOM
Cable length		< 100 m
BCOM system name	1	(SYSTEM)*
BCOM subsystem ad		1255 (1)*
BCOM device addres		1255 (1)*
USB		
Number		2
Operating mode	USB-2.0-Host (5 V, 500 mA)
Datarate		480 Mbit/s
Cable length		< 3 m
onnection type	USB	2 Standard-A
Modbus TCP		
Interface/protocol	Fthernet	/Modbus TCP
Cable length	Etitetinet	< 100 m
Operating mode	Client for PEM and "third-party devi	
Operating mode	Server for access to process image and for Modbus control	
SNMP	Server for decess to process image and for mousins conte	or communas
Interface/protocol	Ft	hernet/SNMP
Versions	Lu	1, 2c, 3
Devices supported	Queries to all devices (channels) possible (no trap	
Trap support	Queries to all devices (challicis) possible (no trap	No
Modbus RTU		
Interface/protocol	DC 40E	/Modbus RTU
Operating mode	n3-403/	master
Baud rate	0.6	57.6 kbit/s
Cable length	9.0.	< 1200 m
Cable	shielded, one end of shield cor	
recommended		min. AWG23
alternative		
Connection	twisted pair, J-Y(St "AMB", "BMB" (see plug	
	r 120 Ω (0.25 W), can be switched on internally (see plug	
	RTU slave addresses	2247
	THO State dual Coses	
PROFINET Interface/protocol		net/PROFINET
Operating mode		(a (IO Davica)

Slave (IO-Device)

Technical data

Technical data		
Digital inputs (1-12)		Plug-in terminal (l1;k1;l2;k2
Number	12	Conductor sizes
Galvanic separation	yes	Stripping length
Operating mode selectable for each input: ac		rigid/flexible
Factory setting	active-high	flexible with ferrule without pla
Voltage range (high)	AC/DC 1030 V	flexible with ferrule with plastic
Voltage range (low)	AC/DC 02 V	For UL-applications (only CPS
Max. Current per channel (at AC/DC 30 V)	8 mA	Use copper conductors only.
) (2-2) (3-3)(12-12)	Minimum temperature rating of the
Maximum cable length	< 1000 m	Minimum temperature rating of the
Switching elements		Environment/EMC
Number	1 relay	EMC
Operating mode N/C ope	eration / N/O operation	Operating temperature
Function	programmable	CP907
Electrical endurance under rated operating conditions, number of co		CP907 for UL-Applications
Contact data acc. to IEC 60947-5-1:		CP915 and CP924
	-13 AC-14 DC-12	Range of use
	4 V 24 V 24 V	Humidity
, ,	2 A 2 A 2 A	Classification of climatic con
Minimum contact load (relay manufacturer's reference)	10 μA / 10 mV DC	Stationary use (IEC 60721-3-3)
	-in terminal (11;12;14)	Transport (IEC 60721-3-2)
Buzzer		Long-term storage (IEC 60721-3
		Classification of mechanical
Buzzer message can be acknowledged, adoption of chara		Stationary use (IEC 60721-3-3) (
Buzzer interval	configurable	Stationary use (IEC 60721-3-3) (
Buzzer frequency	configurable	Transport (IEC 60721-3-2)
Buzzer repetition	configurable	Long-term storage (IEC 60721-3
Audio		Other
Line IN	not used	Operating mode
Line OUT Output to a STEREO playback device	ce via 3.5 mm jack plug	Mounting
Cable length	< 3 m	Degree of protection, front
Device connections		Degree of protection, front for U
Tamain al blade (14. N. DE) (6. a CD04F and CD024 and a)		Degree of protection, enclosure
Terminal block (L1; N; PE) (for CP015 and CP924 only)	AWC 20 12	Flammability class
Conductor sizes	AWG 2012	Dimensions
Stripping length	1011 mm	CP907 (W x H x D)
rigid/flexible	0.54 mm ²	CP915 (W x H x D)
flexible with ferrule with/without plastic sleeve	0.54 mm ²	CP924 (W x H x D)
Multiple conductor, flexible with TWIN ferrule with plastic sleeve	0.54 mm ²	Documentation number
Plug-in terminal (A1/+;A2/) (11;12;14)		Weight
Conductor citos	AWC 24 12	CDOOT

AWG 24...12

0.2...2.5 mm²

0.25...2.5 mm²

0.5...1.5 mm²

10 mm

Plug-in terminal (I1;k1;I2;k2I12;k12) (AMB;BMB;SI	MB;ABMS;BBMS;SBMS)
Conductor sizes	AWG 2416
Stripping length	10 mm
rigid/flexible	0.21.5 mm ²
flexible with ferrule without plastic sleeve	0.251.5 mm ²
flexible with ferrule with plastic sleeve	0.250.75 mm ²
For UL-applications (only CP907)	
Use copper conductors only.	
Minimum temperature rating of the cable to be connected to th	ne field wiring terminals 75 °C
Minimum temperature rating of the cable to be connected to th	ne PoE-Connector 80 °C
Environment/EMC	
EMC	IEC 61326-1
Operating temperature	
CP907	-10+55 °C
CP907 for UL-Applications	-10+50°C
CP915 and CP924	-5+40 °C
Range of use	≤ 2000 m AMSL
Humidity	≤ 98%
Classification of climatic conditions acc. to IEC 60721:	
Stationary use (IEC 60721-3-3)	3K22
Transport (IEC 60721-3-2)	2K11
Long-term storage (IEC 60721-3-1)	1K22
Classification of mechanical conditions acc. to IEC 607	721:
Stationary use (IEC 60721-3-3) CP907	3M11
Stationary use (IEC 60721-3-3) CP915 and CP924	3M10
Transport (IEC 60721-3-2)	2M4
Long-term storage (IEC 60721-3-1)	1M12
Other	
Operating mode	continuous operation
Mounting	display-oriented
Degree of protection, front	IP54
Degree of protection, front for UL applications	IP50
Degree of protection, enclosure	IP20
Flammability class	UL 94V-(
Dimensions	
CP907 (W x H x D)	226 x 144 x 78 mm
CP915 (W x H x D)	505 x 350 x 92 mm
CP924 (W x H x D)	654 x 441 x 100 mm
Documentation number	D00349
Weight	
CP907	approx. 1.1 kg
CP915	approx. 6.1 kg
CP924	approx. 9.1 kg



flexible with ferrule with/without plastic sleeve

Multiple conductor, flexible with TWIN ferrule with plastic sleeve

Bender GmbH & Co. KG

Conductor sizes Stripping length

rigid/flexible



