

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 labelled safety functions
- Silent due to operation without fan
- · High-quality display with excellent contrast, high resolution and wide viewing angle
- Possibility of graphical integration of building plans or status display in photo
- Easy integration of external equipment 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 remote I/O system offers numerous options for integrating digital and analogue I/Os with different operating voltages, capacities, 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, EtherNet/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. The integration of the technical equipment into a single panel creates a technical monitoring centre. It provides diagnostic options through an overall system overview from a central location via a web browser, supported by data loggers and history memory.

Optional parameter setting (setting limit values, entering individual customer texts, editing the system configuration, etc.) is 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 x 144 x 78 mm	1.1 kg	white	B95061080
CP907 without Flush-mounting enclosure	/ (17.6 CIII)	alternatively PoE possible	220 X 144 X / 0 IIIIII	0.9 kg	white	B95061093
CP915	15,6" (39.6 cm)	39.6 cm) AC 100240 V, < 30 W 505 x 350 x 92 mm	E0E v 2E0 v 02 mm	6.1 kg	white	B95061081
CFFIS			303 X 330 X 92 IIIIII		grey	B95061085
CP924	24" (61 cm)	AC 100240 V, < 55 W	654 x 441 x 100 mm	9.1 kg	white	B95061083
					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 kit.

Components separately

Device series	Туре	Art. No.¹¹
CP907	Flush-mounting enclosure	B95100140
CP915	Display unit white	B95061090
	Display unit grey	B95061110
CP924	Display unit white	B95061097
	Display unit grey	B95061111

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

Accessories

Device series	Description	Art. No.
CP907	Surface-mounting enclosure	B95061915
CP915, CP924	CP9xx suction lifter 1)	B95061911
All	CP9xx replacement plug kit	B95061910

¹⁾ The suction lifter is needed to remove the display.

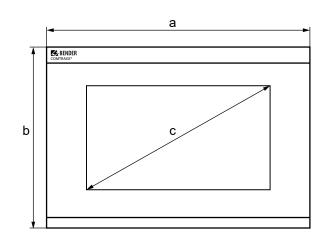
Other project-specific versions with foil surface or with additional internal components available on request:

- Charging trays 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 installation enclosures
- Integration of third-party equipment
- Antibacterial or highly transparent foil options available
- Replacement of existing panels (retrofitting)
- etc.



< 55 W

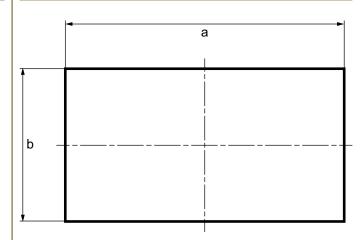
External dimensions



Type	Dimensions (mm)			
1,765	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



Туре	Enclosure	Dimensio	Required installation	
1,750	Linciosure	a	b	depth
CP907	Flush-mounting	212	124	75
CP907	Surface-mounting	299	173	-
CP915	Flush-mounting	464	309	92
CP924	Flush-mounting	613	401	95

Technical data

Insulation	coordination	acc. to	IEC 60664-1	
CD907				

Rated voltage	50 V
Overvoltage category	III
Pollution degree	2
Rated impulse voltage	800 V
CP915/CP924	
Rated insulation voltage	AC 250 V
Overvoltage category	III
Pollution degree	2
Rated impulse voltage	4 kV

Supply

CP907 via plug-in terminal (A1/+;A2/-)

Cr 307 via piug-iii teriiiiiai (A 1/ +, A2/-)	
Nominal voltage	DC 24 V SELV/PELV
Nominal voltage tolerance	±20 %
Typical power consumption at DC 24 V	< 15 W
Maximum cable length when supplied via B95061210 (DC 24	V power supply unit 1.75 A):
0.28 mm ²	75 m
0.5 mm ²	130 m
0.75 mm ²	200 m
1.5 mm ²	400 m
2.5 mm ²	650 m

CP907 via Power-over-Ethernet (PoE)

C 48 V SELV/PELV
-25+15 %
< 15 W
100 m

CP915 via terminal block (L1; N)

Typical power consumption at AC 230 V

Nominal voltage via external power supply unit	AC 100 240 V
Nominal voltage tolerance	-15+10 %
Frequency range U _s	5060 Hz
Typical power consumption at AC 230 V	< 30 W
CP924 via terminal block (L1; N)	
Nominal voltage via external power supply unit	AC 100 240 V
Nominal voltage tolerance	-15+10 %
Frequency range U_s	5060 Hz

Stored energy time in the event of voltage failure

Time, date min. 3 days

Displays, memory

Display/Resolution		
CP907	7" TFT touch display/8	00 x 480
CP915	15.6" TFT touch display/12	80 x 720
CP924	24" TFT touch display/1280 x 720 or 192	0 x 1080
E-mail configuration and de	vice failure monitoring max. 25	0 entries
Individual texts	unlimited number of texts with 100 charact	ters each
Displayable devices		247
Number of data points for "t	hird-party devices" to Modbus TCP and Modbus RTU	1600
Number of data loggers		30
Number of data points per d	ata logger	10,000
Number of entries in the his	tory memory	20,000

Visualisation

Number of pages	50
Background image size	max. 3 MB



Devices supported Trap support

Interfaces		USB
Ethernet		Number 2
Connection	RJ45	Operating mode USB-2.0-Host (5 V, 500 mA)
Cable	shielded, shield on both sides to PE	Datarate 480 Mbit/s
Cable length	< 100 m	Cable length < 3 m
Data rate	10/100 Mbit/s, autodetect	Connection type USB 2 Standard-A
HTTP mode	HTTP/HTTPS (HTTP)*	Used ports
DHCP	on/off (off)*	53 DNS (UDP/TCP)
t _{off} (DHCP)	560 s (30 s)*	67, 68 DHCP (UDP)
IP address	nnn.nnn.nnn (192.168.0.254)*,	80 HTTP (TCP)
	can always be reached via: 169.254.0.1	123 NTP (UDP)
Net mask	nnn.nnn.nnn (255.255.0.0)*	161 SNMP (UDP)
Protocols	TCP/IP, Modbus TCP, Modbus RTU, PROFINET, DHCP, SNMP, SMTP, NTP	443 HTTPS (TCP)
BMS bus		502 MODBUS (TCP)
Interface/protocol	RS-485/BMS internal	4840 OPCUA (TCP)
Operating mode	master/slave (master)*	5353 MDNS (UDP)
Baud rate	9.6 kbit/s	48862 BCOM (UDP)
Cable length	< 1200 m	
Cable	shielded, one end of shield connected to PE	Digital inputs (112)
recommended	CAT6/CAT7 min. AWG23	Number 12
alternative	twisted pair, J-Y(St)Y min. 2x0,8	Galvanic separation yes
Connection	"ABMS", "BBMS" (see plug-in terminal)	Maximum cable length < 1000 m
Terminating resistor	120 Ω (0.25 W), can be switched on internally (see plug-in terminal)	Operating mode selectable for each input: active-high or active-low
Device address	1150 (1)*	Factory setting active-high
BCOM		Voltage range (high) AC/DC 1030 V
Interface/protocol	Ethernet/BCOM	Voltage range (low) AC/DC 02 V
Cable length	< 100 m	Max. Current per channel (at AC/DC 30 V) 8 mA (1.1) (2.2) (2.3) (13.11)
BCOM system name	(SYSTEM)*	Connection plug-in terminal (1-1) (2-2) (3-3) (12-12)
BCOM subsystem add		Switching elements
BCOM device address	1255 (1)*	Number 1 relay
Modbus		Operating mode N/C operation / N/O operation
Bender Modbus imag	e V1, V2 (V2)*	Function programmable
Modbus TCP		Electrical endurance under rated operating conditions, number of cycles 10,000
Interface/protocol	Ethernet/Modbus TCP	Contact data acc. to IEC 60947-5-1:
Cable length	< 100 m	Utilisation category AC-13 AC-14 DC-12
Operating mode	Client for Nemder Modbus TCPdevices and "third-party devices"	Rated operational voltage 24 V 24 V 24 V
	Server for access to process image and for Modbus control commands	Rated operational current 2 A 2 A 2 A
Parallel data access fr	om different clients max. 25	Minimum contact load (relay manufacturer's reference) 10 μA / 10 mV DC
Modbus RTU		Connection plug-in terminal (11;12;14)
Interface/protocol	RS-485/Modbus RTU	
Cable length	< 1200 m	Buzzer
Cable	shielded, one end of shield connected to PE	Buzzer message can be acknowledged, adoption of characteristics of new value
recommended	CAT6/CAT7 min. AWG23	Buzzer interval configurable
alternative	twisted pair, J-Y(St)Y min. 2x0,8	Buzzer frequency configurable
Connection	"AMB", "BMB" (see plug-in terminal)	Buzzer repetition configurable
Operating mode	master/slave (master)*	Audio
Baud rate	9.657.6 kBit/s	
Terminating resistor	120 R (0.25 W), can be connected internally (see plug-in terminal)	Line IN not used Line OUT Output to a STEREO playback device via 3.5 mm jack plug
Supported Modbus R	TU slave addresses 2247	. , , , , , , , , , , , , , , , , , , ,
PROFINET		Cable length < 3 m
Interface/protocol	Ethernet/PROFINET	
Operating mode	Slave (IO-Device)	
SNMP		
Interface/protocol	Ethernet/SNMP	
Versions	1, 2c, 3	

Queries to all devices (channels) possible

Device connections	
Terminal block (L1; N; PE) (for CP015 and CP924 only)	
Conductor sizes	AWG 20-12
Stripping length	1011 mm
rigid/flexible	0.5 4 mm
flexible with ferrule with/without plastic sleeve	0.5 4 mm
Multiple conductor, flexible with TWIN ferrule with plastic sleeve	0.5 4 mm
Plug-in terminal (A1/+;A2/-) (11;12;14) Plug-in terminal (A1/+;A2/-;PE) (11;12;14)	
Conductor sizes	AWG 24-12
Stripping length	10 mm
rigid/flexible	0.22.5 mm
flexible with ferrule with/without plastic sleeve	0.252.5 mm
Multiple conductor, flexible with TWIN ferrule with plastic sleeve	0.51.5 mm
Plug-in terminal (l112), (k1k12), (MB), (BMS)	
Conductor sizes	AWG 24-16
Stripping length	10 mm
rigid/flexible	0.21.5 mm
flexible with ferrule without plastic sleeve	0.251.5 mm
flexible with ferrule with plastic sleeve	0.250.75 mm
For UL-applications (only CP907)	
Use copper conductors only.	
Minimum temperature rating of the cable to be connected to the field wir	ing terminals 75 °C
Minimum temperature rating of the cable to be connected to the PoE plug	g 80 °C

Environment/EMC	
EMC	IEC 61326-1
Operating temperature	
CP907	-10+55 °C
CP907 for UL-Applications	-10+50°0
CP915	-5+40°0
CP924	-5+40°(
Range of use	≤ 2000 m AMSI
Rel. humidity	W 98 % at 25 °C
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 60721:	
Stationary use (IEC 60721-3-3) CP907 only	3M11
Stationary use (IEC 60721-3-3) CP915 only	3M10
Transport (IEC 60721-3-2)	2M ²
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-0
Dimensions	
CP907 (W x H x D)	226 x 144 x 78 mn
CP915 (W x H x D)	505 x 350 x 92 mn
CP924 (W x H x D)	654 x 441 x 100 mm
Documentation number	D00349
Weight	
CP907	< 1.1 kg
CP915	< 6.1 kg
CP924	< 9.1 kg



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