COMTRAXX® CP9xx – Control Panel

Alarm indicator and operator panel for medical locations and other areas

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Control Panel

Device features

- 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 quality
- Easy integration of external subsections like charging stations for operating theatre table controls and intercom systems with front foil
- Sealed glass or antibacterial foil surface
- Screwless mounted front plate
- Simple conversion and expansion with minimal service interruptions

Approvals and certifications

CE

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:

- IT systems
- 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:

PROFIBUS, KNX, LONWORKS, SERCOS interface, INTERBUS, DALI, CANopen, MODBUS, 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.

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

Type	Display size	Supply	Device dimensions (W x H x D)	Weight	Display unit	Art. No.
CP907	7" (17.6 cm)	DC 24 V, < 15 W; PoE possible as an alternative	226 x 144 x 78 mm	1.1 kg	Glass, tempered, white	**B95061080**
CP915	15.6" (39.6 cm)	AC 100…240 V, < 30 W	505 x 350 x 92 mm	6.1 kg	Glass, tempered, white	**B95061081**
					Glass, tempered, gray	**B95061085**
CP924	24" (61.0 cm)	–	–	–	Glass, tempered, white	**Soon**
					Glass, tempered, gray	**Soon**

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

Components separately

Device series	Type	Art. No.
CP907	Flush-mounting enclosure	**B95100140**
CP915	Display unit white	**B95061090**
	Display unit gray	**B95061110**
	Flush-mounting enclosure incl. mounting plate with electronics	**B95061092**
CP924	Display unit white	**Soon**
	Display unit gray	**Soon**
	Flush-mounting enclosure incl. mounting plate with electronics	**Soon**

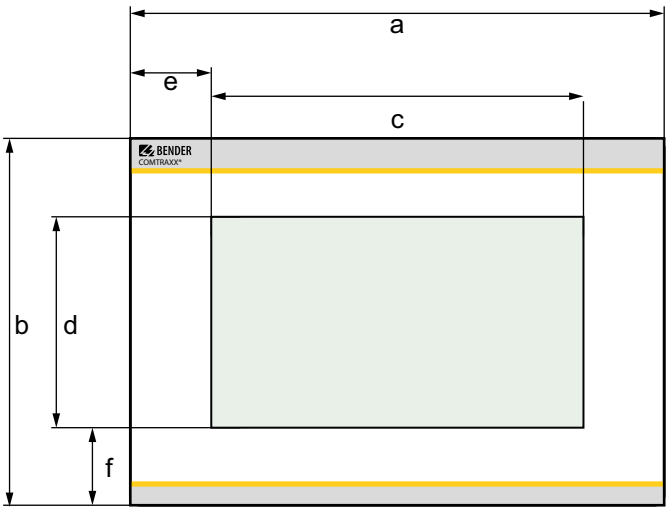
Accessories

Description	Art. No.
CP9xx suction lifter	**B95061911**
CP9xx replacement plug connector kit	**B95061910**

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

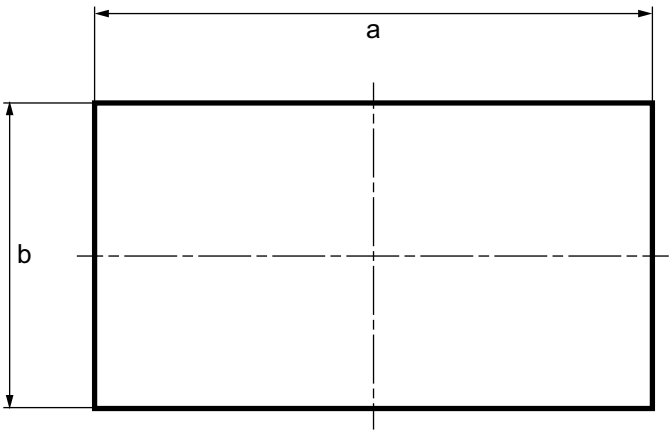
- Charging tray for operating theatre table remote controls
- Intercom systems
- Operating theatre light controls
- Programmable backlit keypads
- Digital/Analogue inputs/outputs for installation in panel enclosures or control cabinets
- Data coupling to third-party systems
- Project-specific built-in enclosures
- Integration of third-party systems
- etc.

External dimensions



Type	Dimensions (mm) ±0.20					
	a	b	c	d	e	f
CP907	226	144	153.8	92.8	36.1	25.6
CP915	505	350	350.73	200.04	77.14	74.98
CP924						

Installation dimensions – panel cut-out



Type	Dimensions (mm)		Required installation depth
	a	b	
CP907	212	124	75
CP915	471	314	87
CP924			

Technical data

Insulation coordination CP907 acc. to IEC 60664-1

Rated voltage	50 V
Overvoltage category	III
Pollution degree	2
Rated impulse voltage	800 V

Insulation coordination CP915 acc. to IEC 60664-1

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/-)

Nominal voltage CP907	DC 24 V
Nominal voltage tolerance	±20 %
Typical power consumption at DC 24 V	< 15 W
Connection	plug-in terminal (A1/+;A2/-)
Maximum cable length when supplied via B95061210 (DC 24 V power supply unit 1.75 A):	
0.28 mm²	75 m
0.5 mm²	130 m
0.75 mm²	200 m
1.5 mm²	400 m
2.5 mm²	650 m

Supply via PoE

Nominal voltage	DC 48 V
Nominal voltage tolerance	-25…+15 %
Typical power consumption for PoE	< 15 W
Maximum cable length when supplied via AWG 26/7; 0.14 mm²	100 m

Supply CP915 via terminal block (L1; N)

Nominal voltage CP915 via external power supply unit	AC 100… 240 V
Nominal voltage tolerance	-15…+10 %
Frequency range Us	50…60 Hz
Typical power consumption at AC 230 V	< 30 W
Connection	terminal block (L1; N)

Stored energy time in the event of voltage failure

Time, date	min. 3 days
Restart after voltage interruption	min. 15 seconds

Display/operation

	CP907	CP915	CP924
Display (TFT touch display)	7″	15.6″	24″
Resolution (pixels)	800 x 480	1366 x 768	1920 x 1080
Active viewable screen (mm)	152.4 x 91.4	344.2 x 193.3	531.3 x 298.8
Brightness (cd/m²)	300	300	300
Contrast (typical)	300:1	400:1	5000:1
Viewing angle (H/V)	70°/70°	80°/70°	89°/89°
Number of colours	262 K	16.7 M	16.7 M
Background lighting			LED
Operation			Capacitive multi-touch display

Memory

E-mail configuration and device failure monitoring	max. 250 entries
Individual texts	1200 texts with 100 characters each
Displayable devices	247
Number of data points for "third-party devices" to Modbus TCP and Modbus RTU	50
Number of data loggers	30
Number of data points per data logger	10,000
Number of entries in the history memory	1,000

Visualisation

Number of pages	20
Background image size	max. 3 MB/image; max. 50 MB total memory

Interfaces

Ethernet

Connection	RJ45
Data rate	10/100 Mbit/s, autodetect
DHCP	on/off (off)*
Toff (DHCP)	5…60 s (30 s)*
IP address	nnn.nnn.nnn.nnn (192.168.0.254)*, can always be reached via: 169.254.0.1
Net mask	nnn.nnn.nnn.nnn (255.255.0.0)*
Protocols (depending on function module selected)	TCP/IP, Modbus RTU, DHCP, SMTP, NTP

BCOM

Interface/protocol	Ethernet/BCOM
BCOM system name	(SYSTEM)*
BCOM subsystem address	1…255 (1)*
BCOM device address	1…255 (1)*

Modbus TCP

Interface/protocol	Ethernet/Modbus TCP
Operating mode	Client for PEM and "third-party devices" assigned
Operating mode	Server for access to process image and for Modbus control commands
Parallel data access by different clients	max. 8

SNMP

Versions	1, 2c, 3
Devices supported	Queries to all devices (channels) possible (no trap functionality)

BMS bus

Interface/protocol	RS-485/BMS internal
Operating mode	master/slave (master)*
Baud rate	9.6 kbit/s
Cable length	< 1200 m
Cable: twisted pair, shielded, one end of shield connected to PE	recommended: J-Y(St)Y min. 2x0.8
Connection	"ABMS", "BBMS" (see plug-in terminal)
Terminating resistor	120 Ω (0.25 W), can be switched on internally (see plug-in terminal)
Device address	1…99 (1)*

Modbus RTU

Interface/protocol	RS-485/Modbus RTU
Operating mode	master
Baud rate	9.6…57.6 kbit/s
Cable length	< 1200 m
Cable: twisted pair, shielded, one end of shield connected to PE	recommended: J-Y(St)Y min. 2x0.8
Connection	"AMB", "BMB" (see plug-in terminal)
Terminating resistor	120 Ω (0.25 W), can be switched on internally (see plug-in terminal)
Supported Modbus RTU slave addresses	2…247

Digital inputs (1-12)

Number	12
Galvanic separation	yes
Operating mode	selectable for each input: active-high or active-low
Factory setting	active-high
Voltage range (high)	AC/DC 10…30 V
Voltage range (low)	AC/DC 0…2 V
Connection	plug-in terminal: (1;1;2;…12;12)
Maximum cable length	< 1000 m

Technical data

Switching elements

Number	1 changeover contact
Operating mode	N/C operation / N/O operation
Function	programmable
Electrical endurance under rated operating conditions, number of cycles	10,000

Contact data acc. to IEC 60947-5-1:

Utilisation category	AC-13	AC-14	DC-12
Rated operational voltage	24 V	24 V	24 V
Rated operational current	2 A	2 A	2 A
Minimum contact rating	1 mA at AC/DC > 10 V		
Connection	plug-in terminal: (11;12;14)		

Buzzer

Buzzer message	can be acknowledged, adoption of characteristics of new value
Buzzer interval	configurable
Buzzer frequency	configurable
Buzzer repetition	configurable

Audio (for CP015 and CP924 only)

Line IN	STEREO signal input via 3.5 mm jack plug
Line OUT	Output to a STEREO playback device via 3.5 mm jack plug

Device connections

Terminal block (L1; N; PE) (for CP015 and CP924 only)

Conductor sizes	AWG 20-12
Stripping length	10…11 mm
rigid/flexible	0.5…4 mm²
flexible with ferrule with/without plastic sleeve	0.5…4 mm²
Multiple conductor, flexible with TWIN ferrule with plastic sleeve	0.5…4 mm²

Plug-in terminal (A1/+;A2/) (11;12;14)

Conductor sizes	AWG 24-12
Stripping length	10 mm
rigid/flexible	0.2…2.5 mm²
flexible with ferrule with/without plastic sleeve	0.25…2.5 mm²
Multiple conductor, flexible with TWIN ferrule with plastic sleeve	0.5…1.5 mm²

Plug-in terminal (I1;k1;I2;k2…I12;k12) (AMB;BMB;SMB;ABMS;BBMS;SBMS)

Conductor sizes	AWG 24-16
Stripping length	10 mm
rigid/flexible	0.2…1.5 mm²
flexible with ferrule without plastic sleeve	0.25…1.5 mm²
flexible with ferrule with plastic sleeve	0.25…0.75 mm²

Environment/EMC

EMC	IEC 61326-1
Operating temperature	-10…+55 °C

Classification of climatic conditions acc. to IEC 60721:

Stationary use (IEC 60721-3-3)	3K5 (except condensation and formation of ice)
Transport (IEC 60721-3-2)	2K3
Long-term storage (IEC 60721-3-1)	1K4

Classification of mechanical conditions acc. to IEC 60721:

Stationary use (IEC 60721-3-3)	3M4
Transport (IEC 60721-3-2)	2M2
Long-term storage (IEC 60721-3-1)	1M3
Range of use	< 2000 m AMSL

Other

Operating mode	continuous operation
Mounting	display-oriented
Degree of protection, front	IP50
Degree of protection, enclosure	IP20
Flammability class	UL 94V-0
Dimensions CP907 (W x H x D)	226 x 144 x 78 mm
Dimensions CP915 (W x H x D)	505 x 350 x 92 mm
Documentation number	D00349
Weight CP907	approx. 1.1 kg
Weight CP915	approx. 6.1 kg

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The Power in Electrical Safety©

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