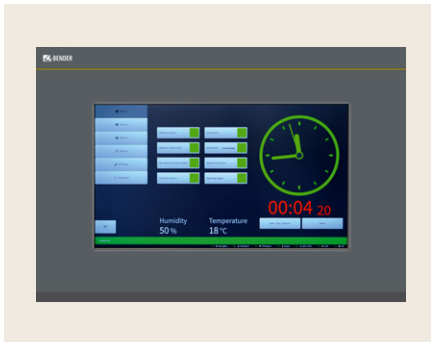


BENDER UK - COMTRAXX® CP9 24" Control Panels

Glass touch alarm indicator and operator panel for medical locations



Typical home screen visualisation



Control Panel

Device features

- Display size 24" with tempered and anti-reflective glass
- Easy to clean and to disinfect, degree of protection IP54
- Screwless mounted front plate
- User-friendly touch-sensitive monitoring system for operating theatres and critical care areas
- Simple and intuitive to operate
- Visual and acoustic notification in the event of an alarm
- Clear menu structure with self-explanatory interactive images
- Clearly marked safety functions
- 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
- Simple conversion and expansion with minimal service interruptions
- Flush glass touch fascia

Approvals and certifications



Assembled in the UK

Product description

The CP9 24" anti-reflective glass touch control panel for hospitals and sterile areas provides a central point for all connected systems to be reviewed. The panel incorporates industrial automation technology with a user friendly Human Machine Interface (HMI) frontend, with Programmable Logic Controller (PLC) backend, which provides integration to other systems. The technology incorporated provides a future proof system. The HMI can provide digital Time of Day and Digital Time Elapse Clocks, alongside visual and mutable audible alarms in the event of a fault.

Possible applications:

Monitoring, operation and display of:

- Medical IT & UPS & Battery Back Up Power Systems
- Medical Gas & AGSS Alarm Status
- Ventilation, Ultra Clean Ventilation & Building Management Systems
- Fire Alarm Systems
- OR General & Surgical Lighting Control
- In Use Sign Control

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.

Configuration, diagnosis, service:

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.

PLC Interface Box

Mount in a corridor of the theatre area or in a plant room area above the theatre. It is recommended that the distance between the CP924 and PLC Interface Box does not exceed 30m.

The dimensions of the box are 800mm x 600mm x 210mm.

The PLC Interface Box should not be powered from the Bender medical IT system. It is advisable to power this from a UPS backed source.

- 40 Digital Inputs
- 4 Analogue Inputs
- 16 Digital Outputs
- 4 Analogue Outputs



Ordering details

Complete devices

Type	Display size	Supply	Device dimensions (W x H x D)	Weight	Display unit	Art. No.
CP924	24" (54.5 cm)	AC 100...240 V, < 55 W	654 x 441 x 100 mm	9.1 kg	Glass, tempered, white	B95061083
					Glass, tempered, gray	B95061084

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.
CP924	Display unit white	B95061111
	Display unit gray	B95061097
	Flush-mounting enclosure incl. mounting plate with electronics	B95061099

Accessories

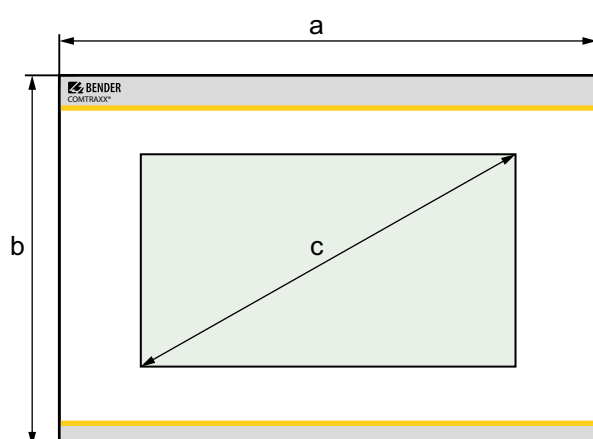
Description	Art. No.
CP9xx replacement plug connector kit	B95061910
CP9xx suction lifter	B95061911

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:

- Operating theatre light controls
- Digital/Analogue inputs/outputs for installation in panel enclosures or control cabinets
- Project-specific built-in enclosures
- Integration of third-party systems
- Exchange of existing control panels (Retrofit)

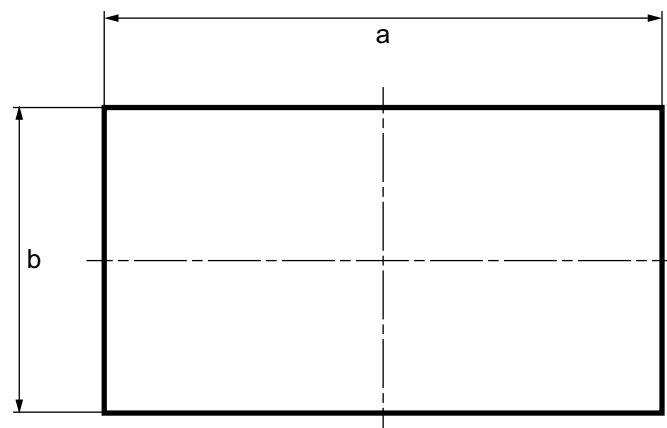
External dimensions



Type	Dimensions (mm)		
	a	b	c
CP924	654	441	545 (24")
with bezel	690	476	X

Glass thickness 3 mm

Installation dimensions – panel cut-out



Type	Abmessungen (mm)		Required installation depth
	a	b	
CP924	610	398	95

Technical data

CP9 24"

Time of Day Clock

In visualisation (NTP signal required for accuracy)

Elapsed Timer

Controls in visualisation

IPS Alarms

All Bender IPS alarms will be present in the unit, these will be part of the Bender Network system and will be in the touchscreen, this will include all EDS messages when relevant
For non-Bender IPS there will be a facility for a common alarm from the third-party system

UPS Alarms

Mains fail
UPS on bypass
Low battery

Room Lighting

Two momentary relay circuits will be available, ideal for a dimmable lighting system

Operating Lights

Merivaara Q flow will be installed as standard
A signal for the operating light on battery backup will be in the panel for all operating lights

Room In Use Signs

There will be three room in use switches to connect to, 230v rated and double pole

AHU System

Full connectivity to the room air handling unit will be done via volt free contacts, including:

1 x vent plant on/off – momentary relay for signal from TCP to AHU
1 x input for vent plant running full – VFC at AHU to send signal to TCP
1 x input for vent plant running at setback – VFC at AHU to send signal to TCP
1 x input for vent plant low air flow – VFC at AHU to send signal to TCP
1 x input for vent plant low humidity – VFC at AHU to send signal to TCP
1 x input for vent plant fault – VFC at AHU to send signal to TCP
All of the above alarm indications to follow guidelines set out in HTM 03-01

UCV System

Full connectivity to the canopy will be done via volt free contacts, including:

1 x VFC for full UCV mode (momentary)
1 x VFC for Conventional mode (momentary)
1 x VFC for UCV lighting (momentary)
1 x input for UCV full mode
1 x input for UCV conventional mode
1 x input for UCV fault
1 x input for Hepa filter dirty

Room Temperature and Humidity

1 x 0-10vdc input for actual room temperature
1 x 0-10vdc output for room temperature adjustment
1 x 0-10vdc input for actual room humidity
1 x 0-10vdc output for room humidity adjust

Medical Gas Alarms

All medical gases displayed in the unit via a third party interface card

Fire Alarm

1 x input driven by VFC at in Fire alarm system for warning
1 x input driven by VFC at in Fire alarm system for evacuate

Power Alarms

1 x input for mains healthy, controlled via a VFC from the BMS system
1 x input for generator running, controlled via a VFC from the BMS system

AGSS

Inclusion of switching theatre AGSS system

Installation : Refer to BDOC 193 Installation Manual



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