

PRA-CSLW Wallmount LCD call station PRAESENSA



This call station for use in PRAESENSA Public Address and Voice Alarm systems is easy to install and intuitive to operate because of its touch screen LCD, providing clear user feedback about setting up a call and monitoring its progress, or controlling background music.

The call station allows for positioning without much effort, because it only requires a connection to an OMNEO IP-network with Power over Ethernet (PoE) for communication and power supply combined. The housing is fit for surface mounting and flush mounting.

It can be configured for use as business call station, but also as emergency call station.

The stylish design uses a heavy metal base and provides a detachable, omnidirectional fist microphone to eliminate the proximity effect, which creates a boomy sound when a user speaks close to the microphone. It has a built-in loudspeaker for call monitoring and a socket to connect a local background music source. It can be easily installed in a wall mount cabinet or flush-mounted on a panel. The 4.3" high-resolution full-color capacitive touch screen gives the operator optimum control and feedback at all times.

Add up to four PRA-CSE call station extensions for zone selection and other functions. Without extensions the call station can only be used with a pre-configured zone selection.

Functions

 Direct connection to the IP-network. One shielded Ethernet cable is sufficient for Power over Ethernet and data exchange.

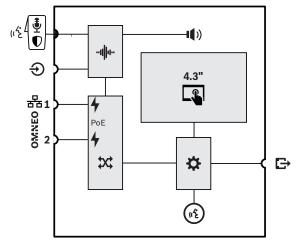
- ► Wallmount housing with detachable fist microphone and coiled cable
- ▶ 4.3" full-color capacitive touch screen
- ► Graphical user interface for optimum user guidance and feedback
- ► Status and fault indicators for voice alarm purposes
- Dual OMNEO IP-network connection and redundant Power over Ethernet
- Connect a second shielded Ethernet cable for dual redundancy of network and of power connection.

Business operation

- Full color 4.3" capacitive touch screen with intuitive function menu navigation provides guidance and feedback during the process of live announcements, pre-recorded messages and music control. Successful broadcast of announcements/ messages and changes to the background music settings are clearly indicated.
- Detachable fist microphone with a press-to-talk button for easy operation. The microphone with cable is connected to the call station with a lockable connector. It can be replaced. The PRA-FML, a detachable fist microphone with a longer cable, is available separately.
- Built-in monitor loudspeaker with volume control.
- Local audio line input (with stereo to mono conversion) for connecting an external audio source. The audio channel will be available on the network and can be played in any loudspeaker
- Connection of up to four PRA-CSE extensions, each with twelve buttons. The buttons can be configured for various functions, but they are especially useful for zone selection, giving a clear overview of accessible zones and the LED indicators for each button show the status of the respective zone (like being selected, occupied or at fault).
- A User number and PIN code can protect the device in public places against unauthorized access.

 If the call station is not used for a while, it will switch to sleep mode to save energy. It will immediately wake up when the screen, or a button, is touched.

Connection and functional diagram



.	Detachable fist microphone with Press-To-Talk or Start/ Stop switch		Audio processing (DSP)
1(1)	Internal monitor loud- speaker/buzzer	4	Power over Ethernet
\$ \$	OMNEO network switch	₩	Controller
(6)	Call/Microphone status LED-ring		

Top side



Top side indicators

lop side indicators		
Ó	Power on Device in identification mode	Green Green blinking
A	Device fault present	Yellow
3	Status business call Microphone active Chime/message active Status emergency call Microphone active Alarm tone/message active	Green Green blinking Red Red blinking
	4.3" full-color capacitive touch screen	LCD
	Identification mode / Indicator test	All LEDs blink
Top side controls		
(<u>\$</u>	Press-To-Talk	Switch
	4.3" full-color capacitive touch screen	LCD

Bottom side



Bottom side indicators

묢	100 Mbps network 1-2	Yellow
	1 Gbps network 1-2	Green

Bottom side controls

5	Device reset (to factory default)	Button
S	Device reset (to factory default)	Button

Architects' and engineers' specifications

The IP-networked wallmount call station shall be designed exclusively for use with Bosch PRAESENSA systems. The wallmount call station shall provide an interface for control data and multi-channel digital audio over OMNEO using dual Ethernet ports for redundant network connection, supporting RSTP and loop-through cabling. It shall receive Power over Ethernet (PoE) via either one or both network connections. The wallmount call station shall provide a backlit full-color capacitive touch panel LCD as user interface for business and evacuation purposes. The wallmount call station shall accept up to four optional call station extensions, each offering 12 configurable buttons for zone selection and other purposes. It shall provide control and routing of live speech calls, stored messages and music with volume control per zone. Authentication on the LCD with user number and PIN code shall protect the device against unauthorized access. The wallmount call station shall have an omnidirectional fist microphone for live calls and a 3.5 mm jack line level input for background music, and provide softwareconfigurable signal processing including sensitivity control, parametric equalization and limiting. The wallmount call station shall be certified for EN 54-16 / ISO 7240-16, marked for CE and be

compliant with the RoHS directive. Warranty shall be three years minimum. The wallmount call station shall be a Bosch PRA-CSLW.

Regulatory information

Emergency standard certifications		
Europe	EN 54-16 (0560-CPR-182190000)	
International	ISO 7240-16	
Maritime applications	DNV GL Type Approval	

Emergency standard compliance		
Europe	EN 50849	
UK	BS 5839-8	

Regulatory areas		
Safety	EN/IEC/CSA/UL 62368-1	
Immunity	EN 55024 EN 55035 EN 50130-4	
Emissions	EN 55032 EN 61000-6-3 ICES-003 FCC-47 part 15B class A	
Environment	EN/IEC 63000	
Railway applications	EN 50121-4	
Maritime applications	EN 60945	

Parts included

Quantity	Component
1	Wallmount LCD call station
1	Bracket (attached to bottom)
1	Connector cover (attached to bottom)
1	Microphone with coiled cable and connector
1	Microphone bracket
1	P-clip for microphone cable
1	Quick installation guide
1	Safety and security information

Technical specifications	
Electrical	
1icrophone	
Nominal acoustic input level (dB SPL) (configurable)	89 dB SPL – 109 dB SPL
Maximum acoustic input level (dB	120 dB SPL
Minimum signal-to-noise ratio (dBA)	73 dBA
Self noise (dB SPL)	< 28 dB SPL
Polar pattern	Omnidirectional
requency response (Hz)	500 Hz – 8,000 Hz (noise cancel ling)
Cable length (cm)	300 cm (stretched)
Display	
Display size (in)	4.30 in
ouchscreen	Capacitive
Color depth	24-bit
Display resolution (pixels)	480 x 272 px
Brightness	300 cd/m2
Monitor loudspeaker	
Maximum sound pressure level, at	75 dB SPL
/olume control	Mute, -40 dB — 0 dB
requency range (-10 dB) (Hz)	400 Hz – 8,000 Hz
ine input	
Minimum signal-to-noise ratio (dBA)	96 dBA
requency response (-3 dB) (Hz)	20 Hz – 20,000 Hz
Total harmonic distortion + noise	0.10%
Power transfer	
PoE input	PoE IEEE 802.3af Class 3
Nominal voltage (VDC) (input)	48 VDC
Input voltage (VDC) (tolerance)	37 VDC - 57 VDC

Power consumption (W) (business use)	4.2 W
Power consumption (W) (emergency use)	5.4 W
Power consumption (W) (per call station extension, indicators off / on)	0.1 W / 1.0 W

Supervision

Microphone	Impedance
Audio path	Pilot tone
Press-to-talk switch	Impedance
Controller continuity	Watchdog
PoE (1-2)	Voltage

Network interface

Ethernet type	100BASE-TX; 1000BASE-T
Ethernet protocol	TCP/IP
Redundancy	RSTP
Audio/control protocol	OMNEO
Latency (ms)	10 ms
Audio encryption	AES 128
Security	TLS
Number of Ethernet ports	2

Reliability

Mean time between failures (MTBF)	1,000,000 h
(h) (Telcordia SR-332 Issue 3)	

Environmental

Operating temperature (°C)	-5 °C – 50 °C
Operating temperature (°F)	23°F – 122°F
Storage temperature (°C)	-30 °C – 70 °C
Storage temperature (°F)	-22 °F − 158 °F
Operating relative humidity, non- condensing (%)	5% - 95%
Air pressure (hPa)	560 hPa - 1,070 hPa

-500 m – 5,000 m
-1,640 ft – 16,404 ft
< 0.35 mm
< 5 G
< 10 G (IEC 60068-2-27)

Mechanical

Dimensions (H x W x D) (mm) (excluding microphone)	62 mm x 130 mm x 189 mm
Dimensions (H x W x D) (in) (excluding microphone)	2.44 in x 5.12 in x 7.44 in
IP rating	IP30
Material	Plastic; Zamac
Color (RAL)	RAL 9017 Traffic black; RAL 9022 Pearl light grey
Weight (kg)	1 kg
Weight (lb)	2.21 lb

Ordering information

PRA-CSLW Wallmount LCD call station

Network-connected, PoE powered, touch screen call station with fist microphone.

Order number PRA-CSLW | F.01U.325.358 F.01U.415.307

Accessories

PSP-D00097 Wall mount adapter PRA-CSLW

Wallmount adapter for easier installation of the PRAESENSA Wallmount LCD call station.
Order number **PSP-D00097 | F.01U.399.576**

PSP-D00098 Wall mount adapter PRA-CSLW + PRA-CSE

Wallmount adapter for easier installation of the PRAESENSA Wallmount LCD call station and call station extension

Order number PSP-D00098 | F.01U.399.577

PSP-D00099 19" 5HE panel

Call station rack panel, 5U-high, for installation in a 19-inch equipment.

Order number PSP-D00099 | F.01U.409.424

Represented by:

Europe, Middle East, Africa: Bosch Security Systems B.V. P.O. Box 80002 5600 JB Eindhoven, The Netherlands **Germany:** Bosch Sicherheitssysteme GmbH Robert-Bosch-Platz 1 D-70839 Gerlingen North America: Bosch Security Systems, LLC 130 Perinton Parkway Fairport, New York, 14450, USA Asia-Pacific: Robert Bosch (SEA) Pte Ltd, Security Systems 11 Bishan Street 21 Singapore 573943

Services

EWE-PRALCD-IW 12 mths wrty ext Praes LCD Call station

12 months warranty extension Order number **EWE-PRALCD-IW | F.01U.387.318**