PRA-CSLD Desktop LCD call station

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- ▶ Desktop housing with gooseneck microphone
- ▶ 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

The PRA-CSLD is a call station for use in PRAESENSA Public Address and Voice Alarm systems.

It is easy to install and configure, but especially easy to operate because of its touch screen LCD, providing clear user feedback about setting up a call and monitoring its progress, or controlling back ground music.

The call station allows for straightforward positioning because it only requires a connection to an OMNEO IP-network with Power over Ethernet (PoE) for communication and power supply combined. It can be configured for use as business call station, but also as emergency call station.

The stylish design incorporates a flexible stem microphone, a recessed press-to-talk button, an internal monitor loudspeaker and a socket to insert a local audio source for background music.

The 4.3" high-resolution full-color capacitive touch screen gives the operator optimum control and feedback at all times.

It can be extended with up to four PRA-CSE keypads, each with twelve configurable buttons.

Functions

IP-network connection

- Direct connection to the IP-network. One standard CAT5e cable is sufficient for Power over Ethernet, audio and control.
- For dual redundancy of network and power connection, a second CAT5e cable can be connected.
- Integrated network switch with two OMNEO ports allows for loop-through connections to adjacent devices (that provide PoE). Rapid Spanning Tree Protocol (RSTP) is supported to enable recovery from failing network links.

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.
- Press-to-talk button gives tactile feedback and is recessed to prevent accidental use.
- · Built-in monitor loudspeaker with volume control.

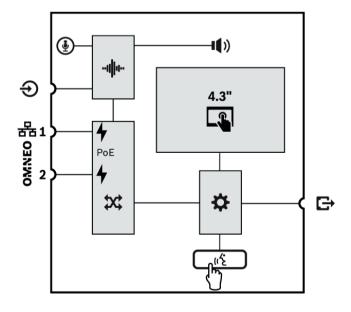
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- Local audio line input (with stereo to mono conversion) for connecting an external audio source.
 The audio channel will be available on the network and can be played in any loudspeaker zone.
- Connection of up to four PRA-CSE extensions, each with 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).
- 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.

Emergency operation

- The call station fully complies to the standards for voice alarm applications when the firemen's user interface is configured and at least one PRA-CSE is connected to it.
- All critical alarm functions are accessible via buttons for operators wearing gloves. The 4.3" screen gives feedback on the system status.
- Each of the two RJ45 network connectors accept PoE to power the call station. This provides fail-safe network connection redundancy, as one connection is sufficient for full operation.
- Supervision of all critical elements; the audio path is supervised, as well as the communication to the network.

Connection and functional diagram



•	Fixed microphone on a flexible stem	I ())	Internal monitor loudspeaker
 	Audio processing (DSP)	4	Power over Ethernet
\$ ¢	OMNEO network switch	₩	Controller
(رځ	Press-To-Talk button		

Top-side



Top-side indicators

Ф	Power on Device in identification mode	Green Green blinking
A	Device fault present	Yellow
•	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

Top-side controls

(رځ	Press-To-Talk	Button
	4.3" full-color capacitive touch screen	LCD

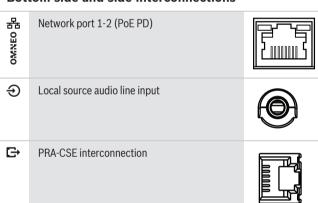
Bottom-side



Bottom-side indicators

몲	100 Mbps network 1-2 1 Gbps network 1-2	Yellow Green
Bot	tom-side controls	
5	Device reset (to factory default)	Button

Bottom-side and side interconnections



Architects & Engineers specification - PRA-CSLD The IP-networked desktop call station shall be designed exclusively for use with Bosch PRAESENSA systems. The desktop 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 desktop call station shall provide a backlit full-color capacitive touch panel LCD as user interface for business and evacuation purposes. The desktop call station shall accept up to four optional 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. The desktop call station shall have a gooseneck

cardioid microphone for live calls and a 3.5 mm jack line level input for background music, and provide software-configurable signal processing including sensitivity control, parametric equalization and limiting. The desktop call station shall be certified for EN 54-16 and ISO 7240-16, marked for CE and be compliant with the RoHS directive. Warranty shall be three years minimum. The desktop call station shall be a Bosch PRA-CSLD.

Certifications and approvals

Emergency standard certifications		
Europe	EN 54-16	
International	ISO 7240-16	

Environmental directive compliancy		
Safety	EN/IEC/CSA/UL 62368-1	
Immunity	EN 55103-2 (E1, E2, E3) EN 50130-4	
Emissions	EN 55032 EN 61000-6-3 ICES-003 ANSI C63.4 FCC-47 part 15B class A	
Maritime	IEC 60945 (excluding salt mist test) DNV Type approval	
Railway	EN 50121-4	

Conformity declarations		
Europe	CE/CPR	
USA/Canada	FCC/c-UL/CSA	
China	CCC	
Korea	KE	
Australia	RCM	
Taiwan	BSMI	
Russian Federation	EAC	
Environment	RoHS	

Parts included

Quantity	Component
1	Desktop LCD call station
1	Bracket (attached to bottom)
1	Connector cover (attached to bottom)
1	Quick Installation Guide

Technical specifications Electrical Microphone 81 to 96 dBSPL Nominal acoustic input level Maximum acoustic input level 120 dBSPL Signal to Noise Ratio (SNR) > 96 dBA Frequency response 200 Hz to 14 kHz Display Size 4.3" Touch screen Capacitive Color depth 24-bit Resolution 480 x 272 px Brightness 300 cd/m² Monitor loudspeaker Nominal acoustic input level Between 500 Hz and 3 kHz at 1 m 75 dBspl +/-6 dB Gain control Mute, -40 dB to 0 dB 1 dB steps Frequency response 500 Hz to 3 kHz Line input Signal to Noise Ratio (SNR) > 96 dBA

Total Harmonic Distortion (THD)	< 0.1%
Power transfer	
Power over Ethernet (PoE 1-2) Nominal DC output voltage Standard	48 V IEEE 802.3af (mode B)
Power consumption Call station Call station extension	8 W 1 W each
Input voltage tolerance	37 to 57 Vdc

Supervision		
current ilot tone Vatchdog oltage		

Network interface		
Ethernet	100BASE-TX, 1000BASE-T	
Protocol	TCP/IP	
Redundancy	RSTP	
Audio/control protocol	OMNEO	
Network audio latency	1 ms	
Audio data encryption	AES128	
Control data security	TLS	
Ports	2	

Environmental

Climatic conditions		
Temperature		
Operating	-5 to +50°C	
Storage and transport	(23 to 122°F) -30 to +70°C	
Storage and transport	(-22 to 158°F)	
Humidity (non-condensing)	5% to 95%	
Air pressure (operating)	560 to 1070 hPa	
Altitude (operating)	-500 to +5000 m (-1640 to 16404 ft)	
Ingress protection	IP30	

Mechanical

Enclosure	
Dimensions (WxHxD) Excluding microphone	130 x 62 x 189 mm (5.12 x 2.44 x 7.44 in)
Base Material Color	Zamak RAL9017
Panel Material Color	Plastic RAL9017 RAL9022HR
Weight	0.9 kg (1.98 lb)

Ordering information

PRA-CSLD Desktop LCD call station

Network-connected, PoE powered, touch screen call station with gooseneck microphone.
Order number **PRA-CSLD**

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