

Cabinet system RACK 19" **DSO-PRA** for BOSCH PRAESENSA system



System configurator for DSO-PRA - Bosch PRAESENSA

CONFI-DSO program for designers that supports configuration of DSO system developed together with BOSCH Company

DSO-PRA - 19" RACK cabinet for Praesensa DSO system



System features

- RACK 19" system dedicated to DSO PRAESENSA system;
- CONFIDSO program for designers that supports configuration of DSO system, developed together with BOSCH Company;
- PSG3LA LED panel for optical and acoustic indication compliant with PN-EN54-16 standard for evaluating DSO system operation;
- LZxxxx safety strip with overcurrent fuses, surge arresters and a dummy connector;
- Single-phase or 3-phase power supply;
- 230 V AC LDxxxx voltage distribution terminal;
- Grounding terminals;
- Dimensions of RACK cabinets:
 - 24U (600×600);
 - 36U (600×600);
 - 42U (600×600, 600×800);
 - 45U (600×600, 600×800);
 - 50U (600×800);
- Protection Class: IP30;
- Batteries included;
- Mounting bracket for batteries;
- Mounting shelves for each cluster;
- Enclosure of DSOS24V-PU firefighter's microphone - available as an option;
- AWO506 End of Line (EOL) Supervision Board - available as an option;
- Possibility of assembling wheels instead of plinth -optional;
- Forced cooling - fan panel with a thermostat, optional accessory for 24U, standard for 36U, 42U, 45U, and 50U;
- Warranty:
 - DSO-PRA cabinet - 2 years from production date;
 - Batteries - 1 year from installation date.

DSO-PRA - 19" RACK cabinet for Praesensa DSO system

19" DSO-PRA RACK cabinet is designed for installation of PRAESENSA voice alarm system devices by Bosch. Devices of DSO system are placed in 19" RACK cabinet together with appropriate battery banks.

CONFI-DSO PRAESENSA program is designed for proper and fast configuration of DSO cabinet; based on implemented design parameters, program selects a complete power supply system taking into account required backup time.



Design of Voice Alarm System

Design and all components of DSO are based on RACK 19" cabinet (Protection Class: IP30), containing all components of system. Depending on system and number of devices, height of cabinet is adjusted individually.

Available dimensions are:

24U (600×600), 36U (600×600), 42U(600×600, 600×800), 45U (600×600, 600×800), 50U (600×800).



LZxxxx safety strip

Safety strip is fitted with circuit breakers, surge arresters, and maintenance socket. Main circuit breaker disconnects 230V/400V mains from all system devices. In addition, power supply circuit is fitted with circuit breaker allowing its disconnection, without disconnecting other devices of DSO, e.g. for maintenance purposes.

In addition to main switch, it is fitted with „type 3" surge arresters compliant with EN 61643-11 standard.



230 V AC LDxxxx voltage distribution terminal

Voltage distribution terminal is equipped with 230V connection sockets and it is used to supply components of DSO. Depending on number of devices and amount of power consumption, terminal can have 1-phase or 3-phase connection. 3-phase version enables more uniform load per phase of power grid. Terminal is placed in back of cabinet.



PSG3LA panel for optical and acoustic indication

Panel for optical and acoustic indication compliant with EN54-16 standard indicates status of entire DSO system. It is equipped with three LEDs, sounder and reset button of acoustic indication.



Fan unit with thermostat

for RACK cabinets: 36U / 42U / 45U / 50U – standard equipment
for RACK cabinets: 24U – available as option

DSO cabinet is equipped with ventilation panel located in upper part of cabinet to force air flow to devices emitting heat. Fans are controlled by a nearby bimetallic thermostat that allows setting activation temperature in range 0-60°C with adjustment knob. Fans are powered from 230V mains; in case of power loss, they are switched off.



Batteries included

System is supplied with properly selected capacities of batteries in scope from 100 to 230 Ah, depending on the power dedicated to single cell.

Correct operation of battery circuit is controlled by the Bosch multifunctional PRA-MPS3 power supply.



DSOS24VPU – Enclosure for firefighter's microphone for DSO (Voice Alarm System)

DSOS24VPU metal housing is designed for installation of BOSCH call stations in PAVIRO and PRAESENSA series voice alarm systems (DSOs). Possibility of mount two call station extenders Paviro or three call station extenders PRAESENSA together with voice alarm call center.

Available as option
in CONFIG-DSO

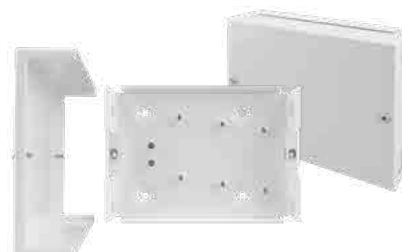


AWO506 – Enclosure for loudspeaker line supervision of DSO system Presideo, Paviro, and Plena by BOSCH

Enclosure is designed for mounting loudspeaker line supervision systems by Bosch used in Voice Alarm Systems. Design of enclosure allows mounting Praesideo, Plena, and Paviro systems by BOSCH.

Enclosure is fitted with four cable glands allowing connecting loudspeaker wires with maximum diameter of 10mm.

Available as option
in CONFIG-DSO



Configure DSO-PRAESENSA power supply system in few steps

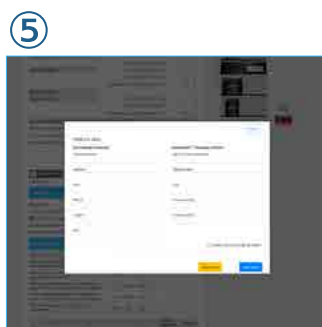
1. Enter basic input data
2. Select desired PRAESENSA systems by BOSCH
3. Select optional accessories
4. CONFI-DSO software will automatically select appropriate components of power system
5. Enter customer data
6. Completed configuration can be saved / printed / exported



④

Results

	Clusters	1	2	3	4	5	6
Required battery capacity incl. safety factor (100 / 230Ah)	[Ah]	106	67	0	0	0	0
Maximum battery current (check battery specification)	[A]	47	24	0	0	0	0
Mains current draw at 230 V AC (during alarm and maximum battery charging)	[A]	2.699	1.375	0	0	0	0
Mains current draw at 115 V AC (during alarm and maximum battery charging)	[A]	5.398	2.75	0	0	0	0
Battery selected automatically / by the user	[Ah]	200	100	0	0	0	0



CONFI-DSO PRAESENSA v1.0

Configuration code: DSO-PRA-D96006/111110

Input data:

Hold time [h]: 24
Alarm time [h]: 0.5
Ind. safety [N]: 30
Extra space U in the cabinet: 1
Rack depth [mm]: 600

Devices:

Cluster 1 Cluster 2 Cluster 3

Description Device

Multifunction Power Supply PRA-MPS3

Active Ethernet ports on MPS: 0

Active SFP ports on MPS: 0

24VDC output: PRA-SCL (System controller)

48VDC output 1: PRA-AD608 (600 W-8 channel)

48VDC output 2: PRA-AD608 (600 W-8 channel)

48VDC output 3: PRA-AD608 (600 W-8 channel)

Call station desktop/wallmount: PRA-CSLW / PRA-CSLW

Call station desktop: PRA-CSLW

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Battery selected automatically / by the user	[Ah]	200	100	0	0	0	0

Active (idle) Active

Total power loss of amplifiers [W]: 144 572

Total heat loss (heat dissipation within the rack) [BTU/h]: 292 1270

RACK cabinet height [U]: 43

RACK cabinet height [mm]: 2103

RACK size [mm]: 600x600

RACK cabinet weight [kg]: 89

Battery weight [kg]: 91.19999999999999

Installation weight (with batteries and device) [kg]: 224

Notes

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