



AMBIENT SYSTEM

Ambient System SMART-CU-11LCD smartVES voice alarm control panel with LCD touchscreen

Product code SMART-CU-11LCD · Voice alarm systems > Control equipment

Central unit of the smartVES voice alarm system with a 4.5-inch LCD touchscreen. Matrix mixer, 11 slots for loudspeaker line and control cards, 4 audio inputs and 12 audio outputs. EN 54-16.

- Approved to EN 54-16, CPR 1438-CPR-0948
- 4.5-inch resistive LCD touchscreen
- 11 slots for loudspeaker line and control cards
- Built-in audio card: 4 inputs and 12 outputs
- Up to 12 simultaneous messages to different zones
- Operates autonomously if the connection to the master unit is lost



Product description

SMART-CU-11LCD is the central unit of Ambient System's smartVES voice alarm system. It is a matrix mixer for input signals that routes audio to four internal 100 V audio buses, to the system's 45-channel digital bus or directly to the unit's audio outputs. According to the manufacturer, the unit can act as the control panel of a small system or as an expansion unit in a larger system.

The central unit monitors zones, loudspeaker lines and amplifiers. When it detects a fault, it reports it to the system and automatically switches in the standby amplifier. If the connection to the network's master unit is lost, the unit runs the alarm scenarios autonomously using its locally stored configuration.

The unit has 11 slots for loudspeaker line control cards and for control input and output cards. The built-in SMART-cAudio-4/12 card has 4 balanced line inputs and 12 balanced outputs for external devices and smartVES amplifiers. The touchscreen on the front panel is used for the system's management and monitoring functions. The version without a display is SMART-CU-11LT.

Technical data

Product code	SMART-CU-11LCD
Manufacturer	Ambient System
Product group	Voice alarm systems > Control equipment
Operating voltage	48 V DC (40–57 V DC), screw terminal
Power consumption	Max. 100 W (depending on configuration)
Number of card slots	11 control card slots
Display	4.5-inch resistive LCD touchscreen
Audio inputs	4 differential (RJ45), input impedance min. 10 kΩ
Audio outputs	12 balanced (3 × RJ45), 600 Ω, nominal level 1 Vrms

Frequency response	40 Hz–20 kHz (1 dB), 400 Hz–8 kHz (0.1 dB)
Distortion (THD+IMD)	Max. 0.05%
Signal-to-noise ratio	Min. 90 dB
Channel separation	Min. 80 dB
DSP	3-band parametric EQ on inputs; 8-band parametric EQ, delay line, limiter and feedback suppression on outputs
Messages	SD memory card up to 32 GB (48 kHz, 16 bit); the 512 MB card included holds over 20 minutes of messages
Simultaneous messages	Up to 12 to different zones
Network	Up to 254 devices; 2 × 1 Gbit/s system ports (optical fibre SFP or RJ45), PoE port
Control inputs and outputs	2 inputs and 2 outputs
Amplifiers	Up to 12 backed-up amplifiers
EN 54 approval	EN 54-16
CPR	1438-CPR-0948
Operating temperature	–5...+40 °C
Humidity	15–80% (non-condensing)
Storage temperature	–20...+70 °C
Dimensions	482 × 85 × 325 mm (W × H × D)
Mounting	19-inch rack
Weight	Max. 8.4 kg (depending on configuration)
Enclosure	Steel, black-painted metal front panel
Included in delivery	2 rack brackets and 4 screws, 8 blanking plates for empty card slots

Documents

The manufacturer's original documents can be downloaded from the product page (QR code at the top of this sheet).

Datasheet: SMART-CU-11LCD and SMART-CU-11LT (Ambient System)

CPR certificate (series): 1438-CPR-0948, smartVES system

Declaration of performance (DoP) (series): smartVES system smart-20230925

EU declaration of conformity (series): smartVES system smartVES-DCE-20231025

Datasheet (series): smartVES voice alarm system (Ambient System)

User manual (series): smartVES voice alarm system

Request a quote or ask for more information

Sales +358 40 668 7641 · myynti@pap.fi · Mon–Fri 8 am – 4 pm (Finnish time)

Up-to-date information and documents: pap.fi/en/tuote/smart-cu-11lcd/