

PRIMA-VA/680R



Controller with DSP and 6 Integrated Class-D Amplifiers

PRIMA-VA/680R is a compact PAVA controller that offers 6 speaker zones or 5 speaker zones with back-up amplifier or 3 A/B speaker zones. This controller is integrated with 6 high efficiency Class-D amplifiers built-in and is capable of handling loudspeaker output power of 250 Watts per zone which provides ease of system wiring and installation.

PRIMA-VA/680R is based on advanced audio digital signal processing (DSP), matrix control functions and digital message players, with front access for a fully monitored fireman microphone and emergency message trigger buttons. The controller integrates our latest technology « Flexcontrol » providing you a huge potential for system configuration. Different types of settings can be freely assigned to the 6 potentiometers located in front of the unit.

The controller has 8 monitored logic control inputs, 8 relay outputs, 2 interfaces for paging consoles (PSS-G2, CD8-G2, or PSM8WJB), 2 balanced audio inputs which allow to connect audio sources such as music player and HF microphone, 1 audio output for Third Party Control, 1 Ethernet port for audio streams and Vox@net connection, and 6 independent amplifier outputs. A XLR 5 pin connector is available on front panel for the optional monitored fireman microphone PRIMA-VA/FM.

Thanks to its IP connectivity, PRIMA-VA/680R enjoys extreme flexibility. The system is SIP compatible and can communicate with the entire range of Audio over IP products Vox@, as well as the audio over IP software Vox@net g2, allowing interconnections with remote sources and endpoints.

Up to 256 PRIMA VA systems can be connected to each other. From a single solution to an IP networked application, PRIMA VA system easily adapts to a wide range of your applications.

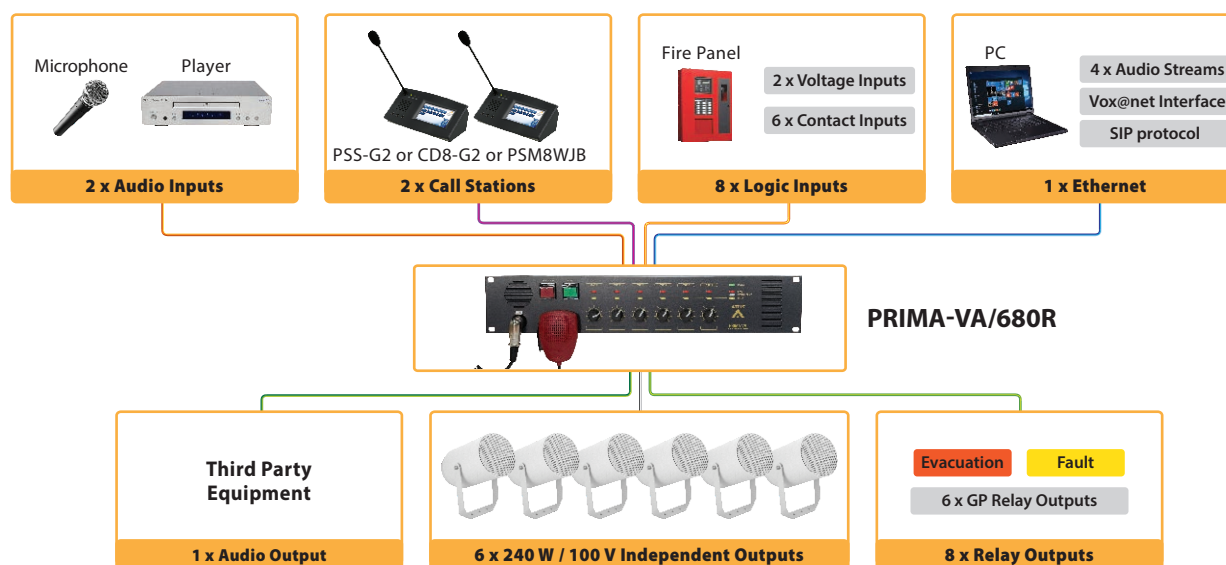
PRIMA-VA/680R can be easily set up thanks to its web browser, for both "Basic" and "Advanced" configurations. Several parameters, such as volume control, priorities, source selection, etc., can be configured from the web server.

As a Voice Evacuation System, PRIMA VA is certified to the EN54 standard. All its components and peripherals are constantly monitored, and all incidents (faults and alarms) are recorded in a historical file that can be viewed on a PC.

- | | |
|--|---|
| <p>FEATURES</p> <ul style="list-style-type: none"> ■ 6 monitored Class-D amplifiers ■ 240 Watts loudspeaker output power per zone ■ Up to 6 speaker zones or up to 5 speaker zones with 1 back-up amplifier or up to 3 A/B speaker zones ■ Simultaneous routing of 6 different audio sources on the 6 zones ■ Permanent line monitoring ■ Free assignment of settings on the 6 potentiometers ■ Up to 4 simultaneous audio streams with SIP protocol | <ul style="list-style-type: none"> ■ Up to 4 message players (more than 1-hour capacity) ■ IP connectivity: compatible with Vox@ range and Vox@net g2 ■ Easy integration with IPBX via SIP protocol ■ Up to 256 PRIMA VA systems can be connected together ■ SNMP protocol for remote monitoring ■ Audio output for Third party control |
|--|---|

PRIMA-VA/680R

Controller with DSP and 6 Integrated Class-D Amplifiers



CONTROLS AND INDICATORS

■ Face Panel

- 1 Start Evacuation button
- 1 Stop Evacuation button
- Monitoring speaker
- 6 configurable potentiometers
- 6 zone EVAC LEDs + 1 general EVAC LED
- 6 fault LEDs + 1 general fault LED
- 1 system fault LED
- 1 power LED

INTERCONNECTIONS

■ Front

- XLR 5 pin connector for optional fireman microphone

■ Back

- AC power cord socket
- 24 VDC backup power input
- 6 speaker zones
- 1 audio output for Third party control
- 2 audio inputs
- 2 interfaces for (up to 300 m in ideal conditions): PSS-G2 / CD8-G2 / PSM8WJB
- 6 monitored logic control inputs
- 2 isolated voltage inputs
- 6 general purpose relay outputs
- 2 status outputs (evac / fault)
- 1 Ethernet connection for audio streams or SIP/Vox@net connection



Rear View of PRIMA-VA/680R

CERTIFICATIONS AND APPROVALS

Europe	Voice Alarm	EN54-16 1438-CPR-0747
Europe	CE/EMC Immunity	EN 50130-4
Europe	CE/LVD	EN 60065

MAIN POWER SUPPLY

- Voltage range: 115 – 230 VAC (50 – 60 Hz)
- Maximum consumption: 1.7 A by 230 VAC
- Standby consumption: 0.32 A by 230 VAC
- Cable specification: 3 x 0.75 mm² EU cord

BACKUP POWER SUPPLY

- Voltage range: 21.6 to 28.8 VDC
- Maximum consumption: 12.00 A by 28 VDC
- Standby consumption: 0.44 A by 28 VAC
- Cable specification: 3 x 4 mm² cable or wires

PRIMA-VA/680R

Controller with DSP and 6 Integrated Class-D Amplifiers

AUDIO INPUTS

- Number of audio inputs: 2
- Balanced output: + Hot / - Cold / G Ground Input impedance: 22 kΩ
- Maximum level: +14 dBu (3.8 Veff)
- Bandwidth: 20 ~ 20 kHz
- Phantom power: 24 VDC – maximum current: 3 mA
- Static gain : -100 to +40 dB
- AGC gain: 0 to +60 dB
- AGC target level: -24 to -6 dB
- Signal to Noise Ratio (SNR): 87 dB
- Total Harmonic Distorsion (THD): < 0.2 %
- Cable specification: 2 x 0.22 mm², shielded cable

LOUDSPEAKER LINES / AMPLIFIER OUTPUTS

- Number of loudspeaker lines: 6
- All outputs combined (100 V mode): 800 W *
- Bandwidth: 20 ~ 20 kHz
- Maximum level: 100V RMS
- Signal to Noise Ratio (SNR): 87 dB
- Total Harmonic Distorsion (THD): < 0.2 %

0 dB OUTPUT

- Balanced output: + Hot / - Cold / G Ground
- Maximum level: +8 dBu (3.8 Veff)
- Bandwidth: 20 ~ 20k Hz
- Signal to Noise Ratio (SNR): 87 dB
- Total Harmonic Distorsion (THD): < 0.2 %
- Cable specification: 2 x 0.22 mm², shielded cable

CONTACT INPUTS

- Activation: NO or NC for all 6 input contacts
- Monitoring: 4k7 resistors (serial and parallel)
- Cable specification: 2 x 1 mm² cable

VOLTAGE INPUTS

- Activation voltage: 20 to 60 VDC
- Isolated by optocouplers
- Cable specification: 2 x 1 mm², fire retardant cable

VACIE COMPONENTS

- **PRIMA-VA/680R:** Controller with DSP and 6 integrated Class-D amplifiers
- **PRIMA-VA/FM:** Fireman microphone
- **PSS-G2:** Full color touch screen paging console
- **SON 24V 6A MS40 RACK:** SONAES, charger and monitoring unit, 2U 6A rackmount charger

CONTACT OUTPUTS, EVACUATION, FAULT

- Activation: NO for evacuation status, NC for fault status, NO or NC for all other 6 output contacts
- Maximum voltage: 30 VDC
- Maximum current: 2 A
- Cable specification: 2 x 1 mm² cable

SUPPORTED CODECS

- Linear PCM 16 bits
- G.711, G.722, G.729ab
- Speex Wideband
- MP3

SUPPORTED PROTOCOLS

- 802.1 - Ethernet
- RFC 1157 - SNMP v1
- RFC 1213 - MIB II
- RFC 1901 - SNMP v2c
- RFC 1945 - HTTP 1.0
- RFC 2236 - IGMP v2
- RFC 2818 - HTTPS
- RFC 5506 - RTP
- RFC 3261, 3264, 4566 - SIP 2.0 and SDP

MECHANICAL

- Dimensions (W x H x D) : 482 x 432 x 88 mm
- Weight: 8 kg
- Mounting: 19" 2U rack
- Color: RAL7016

WALL MOUNT MECHANICAL

- Dimensions (W x H x D) : 780 x 540x 200 mm
- Weight: 32 kg
- Mounting: Wall mounted
- Color: RAL7016

ENVIRONMENTAL

- Operating temperature: -10 °C ~ +50 °C
- Storage temperature: -20 °C ~ +60 °C
- Relative humidity: < 93%