

# PRIMA-VA/680R



## Digital Controller with 6 Integrated Class-D Amplifiers

PRIMA-VA/680R is a compact PAVA controller that offers 6 loudspeaker outputs. It 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. One amplifier can also be used as a back-up amplifier.

PRIMA-VA/680R is based on matrix control functions and digital message players, with front access for a fully monitored fireman microphone and an emergency message trigger button. 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 sources and HF microphone, 1 audio output for Third Party Control, 1 Ethernet port 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 Vox@ products, as well as the Vox@net g2 audio over IP software, 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.

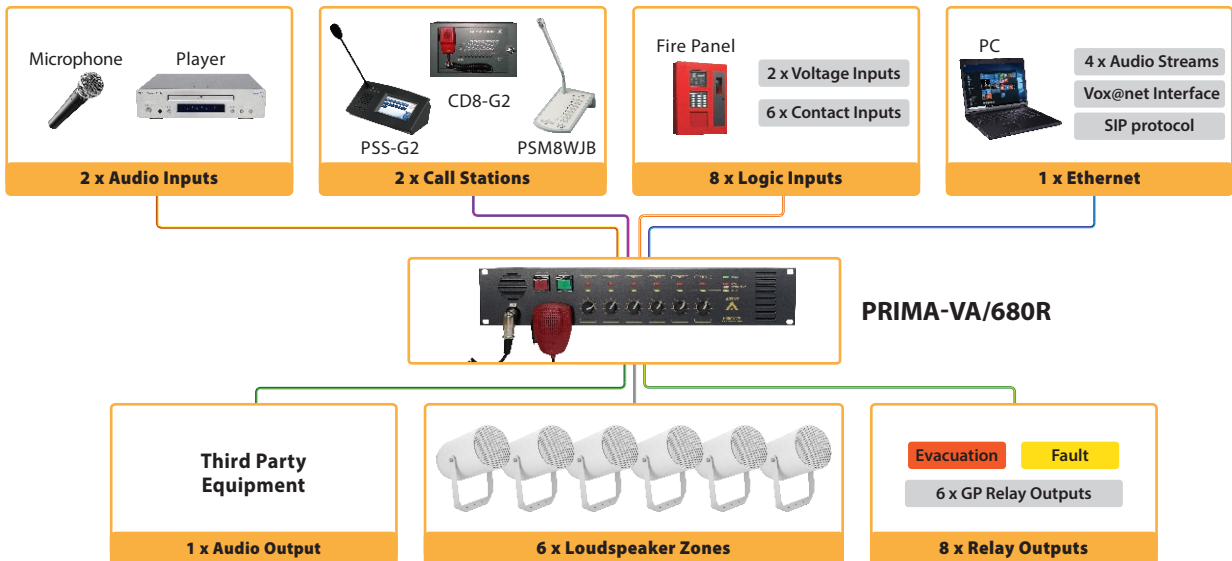
As a Voice Evacuation System, PRIMA VA is certified to the EN54 standard. All its components and peripherals are constantly monitored, and all incidents (faults and alarms) are recorded in a history file that can be read via web browser.

## FEATURES

- 6 monitored Class-D amplifiers
- 250 Watts per output
- 800 Watts all outputs combined
- Up to 6 loudspeaker zones or up to 5 loudspeaker zones with 1 back-up amplifier or up to 3 A/B loudspeaker 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 IP audio streams
- Up to 4 message players
- Message storage (more than 1-hour capacity in mp3)
- 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

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## CONTROLS AND INDICATORS

### ■ Front Panel

- 1 Start Evacuation button
- 1 Stop Evacuation button
- Monitoring loudspeaker
- 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 Panel

- XLR 5 pin connector for optional fireman microphone

### ■ Rear Panel

- AC power cord socket
- 24 VDC backup power input
- 6 loudspeaker zones
- 1 audio output for Third party control
- 2 audio inputs
- 2 interfaces for PSS-G2 / CD8-G2 / PSM8WJB (up to 300 m in ideal conditions)
- 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 output power: 800 W burst
- Maximum consumption: 1.7 A by 230 VAC
- Standby consumption: 0.32 A by 230 VAC
- Cable specification: 3 x 0.75 mm<sup>2</sup> EU cord

## BACKUP POWER SUPPLY

- Voltage range: 21.6 to 28.8 VDC
- Maximum consumption: 12 A by 28 VDC
- Standby consumption: 0.44 A by 28 VDC
- Cable specification: 3 x 4 mm<sup>2</sup> cable or wires

# PRIMA-VA/680R

## Digital Controller with 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 mm<sup>2</sup>, shielded cable

### LOUDSPEAKER LINES / AMPLIFIER OUTPUTS

- Number of loudspeaker lines: 6
- One output: 250 W
- Maximum loudspeaker load (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 ~ 20 kHz
- Signal to Noise Ratio (SNR): 87 dB
- Total Harmonic Distorsion (THD): < 0.2 %
- Cable specification: 2 x 0.22 mm<sup>2</sup>, shielded cable

### CONTACT INPUTS

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

### VOLTAGE INPUTS

- Activation voltage: 20 to 60 VDC
- Isolated by optocouplers
- Cable specification: 2 x 1 mm<sup>2</sup>

\* All channels combined

### 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 mm<sup>2</sup> 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 88 x 432 mm
- Weight: 8 kg
- Mounting: 19" 2U rack
- Color: RAL7016

### ENVIRONMENTAL

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

### VACIE COMPONENTS

- **PRIMA-VA/680R**: Digital Controller with 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

### ORDERING INFORMATION

- **PRIMA-VA/680R**: Digital Controller with 6 integrated Class-D amplifiers