

1023000000

## ESC1

Exigo System Controller



### DESCRIPTION

- Control and routing of audio channels
- 115 - 230 VAC primary power and 24 - 48 VDC secondary power
- Redundant Ethernet connections
- Digital audio processing
- Receives, handles and stores fault messages from the system
- Interface to PABX and iPBX
- Interface to telecom management, safety, automation and security systems
- Voice message storage
- Programmable alarm generator
- 6 configurable control outputs
- 6 configurable control input

The system controller is based on IP technology, giving it extreme flexibility, superb audio quality and multiple possibilities for integration. The system controller handles routing and prioritization of up to 32 simultaneous audio channels in the system where audio can be distributed from up to 150 audio inputs to up to 250 zones.

The system controller features a display where status and faults can be viewed. This display also allows configuration of simple parameters. The system controller monitors and receives status information from every component in the system. Faults are time stamped, and presented in chronological order on the display. Buttons allow an operator to acknowledge and reset faults. The network connection to every component in the system is monitored, so a defect switch or broken cable will be detected just as reliably and fast as any other fault in the system.

The system controller also acts as the system's alarm generator and audio message storage. The embedded alarm generator features a set of the most common alarm tones, but can also be programmed to support custom alarm tones and patterns. Stored voice and audio messages is easily uploaded to the system controller as standard wav files.

The system controller's control inputs/outputs and audio inputs can be used locally by the system controller (e.g. for PTT and audio from a handheld microphone) or can be controlled by the system (e.g. audio input for background music).

# SPECIFICATIONS

## MECHANICAL

|                    |                   |
|--------------------|-------------------|
| Dimensions (HxWxD) | 87 x 482 x 390 mm |
| Weight             | 9.5 kg            |
| Shipping Weight    | 10.5 kg           |
| Mounting           | 19" Rack, 2HU     |
| Color              | Black             |

## USER INTERFACE

|            |  |
|------------|--|
| Display    | 3.5" QVGA Color TFT LCD  |
| Button     | Rotary selector button with push-to-select                         |
| Indicators | Primary power, Secondary power, Fault, Alarm, Disabled, In command |

## ENVIRONMENTAL

|                       |                             |
|-----------------------|-----------------------------|
| Operating temperature | -15 °C to +55 °C            |
| Operating humidity    | 15% to 95% (non-condensing) |
| Storage temperature   | -40°C to +70°C              |
| Storage humidity      | 10% to 95% (non-condensing) |
| Air pressure          | 700 hPa to 1300 hPa         |
| IP rating             | IP-32                       |

## ELECTRICAL

|                   |                                   |
|-------------------|-----------------------------------|
| Primary           |                                   |
| Connector         | V-lock, IEC 60320-1 C14 compliant |
| Nominal input     | 110 – 230 Vac, 47-63 Hz           |
| Secondary power   |                                   |
| Connector         | Pluggable and lockable terminal   |
| Nominal input     | 24 - 48 Vdc                       |
| Power consumption | Pmax <100W                        |

## NETWORK

|                          |  |
|--------------------------|--|
| Ethernet                 | 2 x 10BASE-T, 100BASE-TX, Auto negotiation, Auto MDIX  |
| Protocols                | Protocols IPv4 (with DiffServ), TCP, UDP, HTTPS, TFTP, RTP, DHCP, SNMP, STENTOFON CCoIP® , NTP             |
| LAN Protocols            | VLAN(IEEE 802.1pq), Network Access Control (IEEE 802.1x), STP (IEEE 802.1d)                                |
| Management and operation | HTTP/HTTPS (Web configuration) DHCP and static IP Remote automatic software upgrade Centralized monitoring |

## LINE OUTPUT

|                    |                          |
|--------------------|--------------------------|
| Levels             | 0 dBv (1Vrms)            |
| Gain               | -40 dB +2dB              |
| Levels             | 600 Ohm                  |
| Frequency response | Hardware: 200 Hz - 19kHz |
| Audio codec        | G722                     |

## LINE INPUT

|                     |                          |
|---------------------|--------------------------|
| Frequency response  | Hardware: 80 Hz – 20 kHz |
| Audio codec         | G722                     |
| Nominal input level | 100 mVRMS – 1 VRMS       |
| SNR                 | 80 dB                    |
| CMRR                | 45 dB                    |
| Input impedance     | 600 Ω / 10 kOhm          |

## MICROPHONE INPUT

|                     |                     |
|---------------------|---------------------|
| Frequency response  | 80 Hz – 20 kHz      |
| Audio codec         | G722                |
| Nominal input level | 1 mVRMS – 100 mVRMS |

## MICROPHONE INPUT

|                           |   |
|---------------------------|---|
| SNR                       | 80 dB                                     |
| CMRR                      | 45 dB                                     |
| Input impedance           | 600 $\Omega$ / 10 k $\Omega$ (selectable) |
| Phantom supply (optional) | 12 VDC $\pm$ 10% @ 15 mA (IEC 61938, P12) |

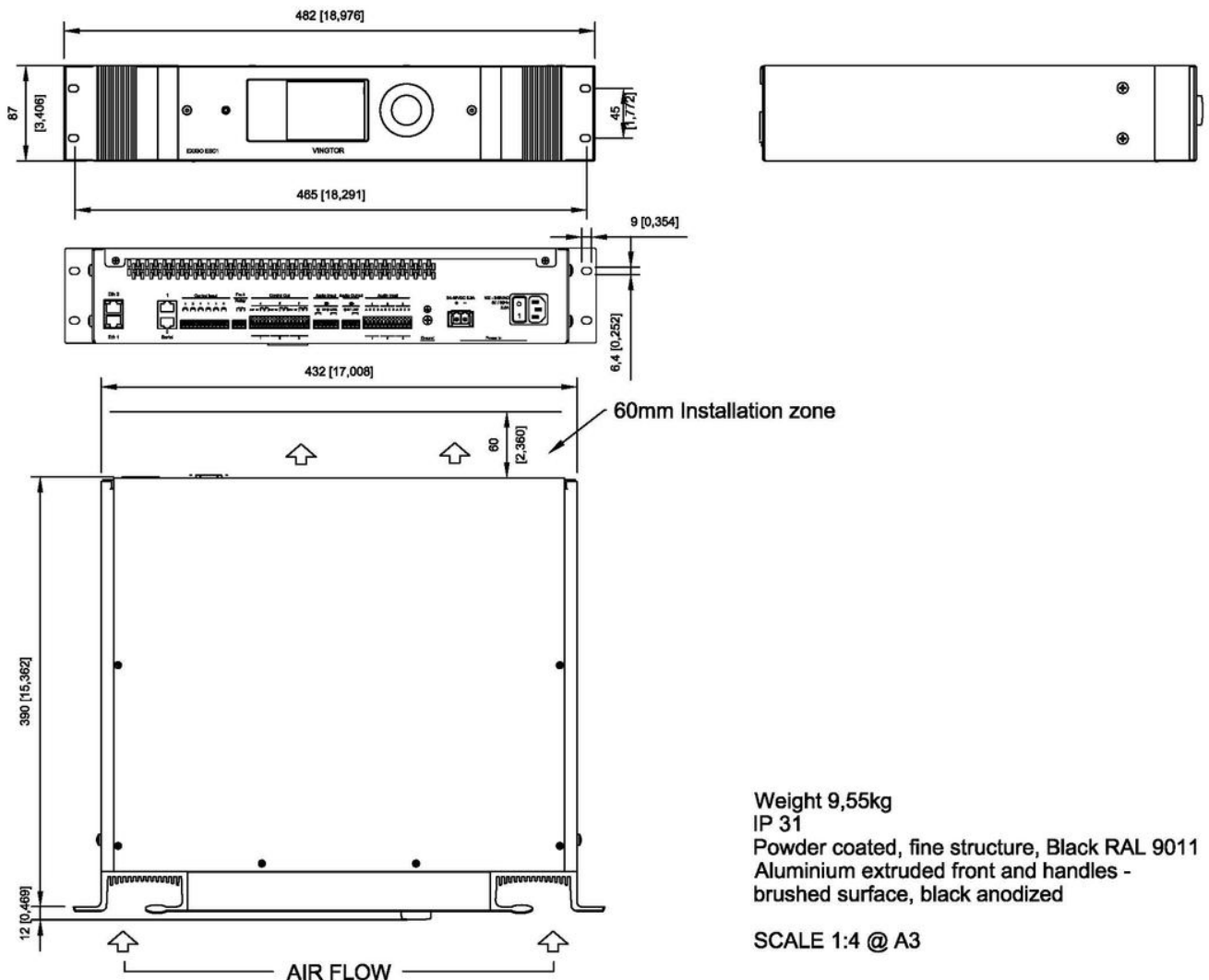
## CONTROL INPUTS AND CONTROL OUTPUTS

|                             |   |
|-----------------------------|---|
| Control Inputs              | 6   |
| Type                        | Closing contact, monitored                                      |
| Control Outputs             | 6   |
| Relay outputs: (COM, NO,NC) | Max recommended levels: 3A, 100Vdc, 125Vac, switching 60W/125VA |
| 24 V outputs                | 24 VDC $\pm$ 10%, 200 mA, monitored                             |
| Fault relay                 | 1   |
| Relay outputs: (COM, NO,NC) | Max recommended levels: 3A, 100Vdc, 125Vac, switching 60W/125VA |

## CERTIFICATIONS

|           |  |
|-----------|--|
| Immunity  | EN 60945, EN 50130-4, EN 61000-6-1, EN 61000-6-2, EN 55103-2 |
| Emissions | EN 60945, EN 61000-6-3, EN 61000-6-4                         |
| Safety    | EN 60065, EN 60950, EN 62368-1, IEC 60529                    |

## TECHNICAL DIMENSIONS



## ACCESSORIES



### EPMS100

Item Number: 1023910000



### AMC-IP VERSION 11

Item Number: 1009202100