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ESC1

Exigo System Controller

IMPORTANT NOTE: This article comes without Primary System Controller (PSC). This is mandatory for Exigo System Controller operation.

- 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

EN54 EN 54 Certified Exigo

Description

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).

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Technical Dimensions

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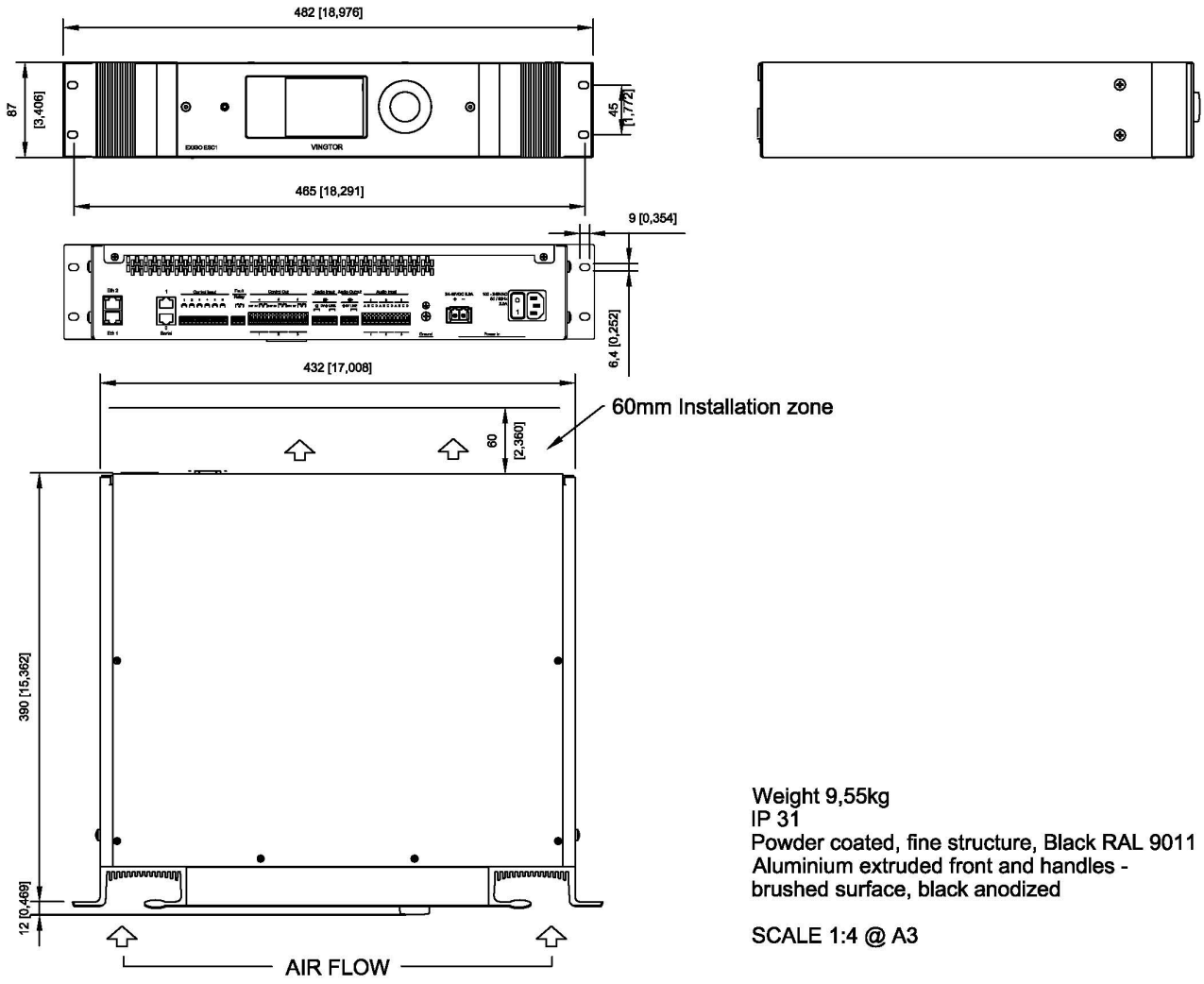

Weight 9,55kg
IP 31
Powder coated, fine structure, Black RAL 9011
Aluminium extruded front and handles - brushed surface, black anodized

SCALE 1:4 @ A3

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
	*) Power cord not included

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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
SNR	80 dB
CMRR	45 dB
Input impedance	600 Ω / 10 k Ω (selectable)
Phantom supply (optional)	12 VDC ±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 ±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 61000-6-2*, EN 55103-2
Emissions	EN 60945, EN 61000-6-4*
Safety	EN 60065, IEC 60529
*When used in conjunction with PN: 1023598000 & 1023598100	

CERTIFICATIONS

Accessories

EPMS100

Exigo System Controller Spare Power Supply

AMC-IP Version 11

Processor Board for AlphaCom XE and ESC1

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