EKONICS
DIGITAL ALARM & VOICE EVACUATION SYSTEM

General

The Ekonics (Digital Alarm and Voice Evacuation System) is Digital Signal Processing (DSP) based voice alarm and Public Address System. The Ekonics System comprises router, Digital Amplifier and Power supply. This unit provides audio routing, full system control and fault reporting functions. The Ekonics provides digital storage 120 Second Max, it is divided into Maximum 12 DVA messages eight audio outputs. The Ekonics has a front panel display control interface for commissioning the system, fault monitoring and diagnostics. Ekonics is linked / integrated with the Fire Alarm control Panel (Avani) through Rs485.
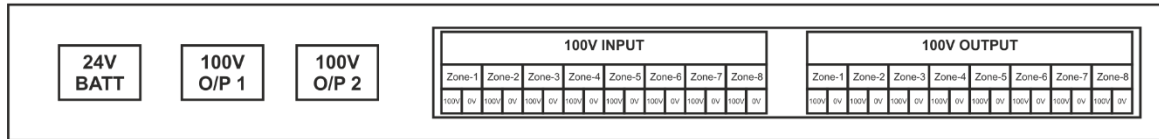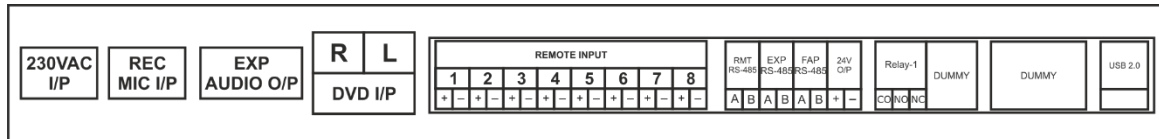
Features

- 4 audio inputs can configure to any combination of 8 or multiple of 8 outputs.

- 19" Rack mountable.

- All-call or zone wise paging.

- Built-in 12 Programmable DVA/Alarm messages.

- 40x4 LCD Display.

- USB 2.0 Interface for PC connectivity.

- PC based Router configuration.

- Interface with Avani via RS-485

- 3 Levels of Password protection.

- RS485 communication facility.

- Event log with RTC.

- User selectable Volume level & 3 Band Equalizer for audio inputs.

- Zone wise input priority level, permanent input, scheduled digital voice announcer.

- All field circuits are supervised.

- Inbuilt 250W Amplifier (2X125W)

- Zone wise selection through keypad.

- Programmable one form C Relay

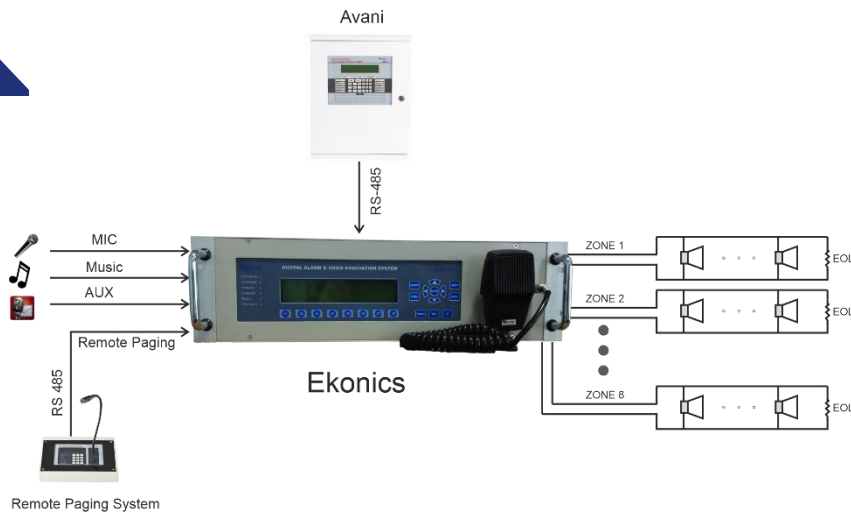- Zone Selection, Fault status in unambiguous colored LED indication.

Specification

Specification	
Primary Power	220VAC + 10% -15%, 50 Hz.
Standby Power	24V DC (Lead acid battery)
Operating Temperature	0 - 49° C / 32-120° F.
Relative Humidity	93 ± 2% RH (non-condensing) at 32 ±2° C / 90 ±3° F.
Charging Voltage	28 V, ±0.5V Nominal
Charging Current	1.2A (Max.).
DC Output	4
Audio Inputs	Up to 3 x balanced audio 1 Vrms. 10 KΩ, 3 Pin, Euroblock type
Audio outputs	8 Zone (Expandable upto 64)
Build in DVA / Alarm storage)	Max 12 Messages / 120 seconds
Analogue input interfaces	8 Contacts (Normally Open)
Maximum Watts	250Watt (2X125W)
Dimensions(3U)	482.6W X 134H in mm .

Terminal Details

Block Diagram

Compatible Device

Model	Description
EK-700 Series	Expander for ekonics
EK-722	Digital Amplifier
EK-714	Remote Paging System
RE-LS6C	PA Ceiling Speaker
RE-LS6W	PA Wall mount Speaker
RE-LS30B	Bi-Directional Projection Speaker
RE-LU100XT	Horn Speaker

Ordering Information

Model	Description
Ekonics	Digital Alarm & Voice Evacuation System