

Sonix™ Ms12

PA/GA digital message store



Overview

Sonix™ Ms12 is a compact 19" 1U design unit housing an efficient circuit interface between the Sonix™ PA/GA system and the Sonix™ digital message store. Ms12 provides the user with the secure means to record and playback digital messages via the PA/GA system.

Features

- Compact 1U package
- Configurable via Sonix™ software
- 12 x 80 second message playback
- Line level message record input
- Isolated outputs to drive duplicated PAGA systems (A+B)
- Zoned or global announcements
- Message initiate via volt free contact or Hmi 26 access panel
- Real time high integrity cable monitoring
- Design focused MTBF / MTTR
- Low thermal emissions / footprint
- RJ45 connectivity for easy maintenance

The Sonix™ Ms12 provides fully duplicated, synchronised and isolated outputs to ensure that both A and B PA/GA systems broadcast simultaneously.

Users can simply record analogue messages and load them on one of the Ms12 secure memory locations. Loading is simply achieved via the rear of the device via line inputs.

Initiation of the required message is via either 12 x volt free contacts on the rear of the Ms12 or via programmable keys on-board the Hmi 26 access panel.

Via Sonix™ configuration software, the user can select if the messages should be broadcast to all zones (global) or to pre-configured zones of address.

Connectivity to the host PA/GA systems can be either CAT6A or 2 pair twisted and screen cable depending upon user selection. Zoned broadcast is available via CAT6A connection only, while global broadcast is available via either 2 pair or CAT6A connectivity.

To ensure rapid and early warning of any system issues, all monitoring of Ms12, power supply, data communication network and field cabling is reported on board the front status panel, on board the 2Mx matrix, on the Sonix™ software interface and out to the site wide DCS / SCADA system.

Longer messages are possible, within total recording time limits, please contact your local Eaton sales representative to discuss customisation options.

Certifications

Certification CE, Environmental and EMC (IEC60945)

Specifications

Mechanical/environmental

Fixing 1U 19" industrial mounting

Weight 1.8 Kg max

Dimensions (H x W x D mm) 482 x 306 x 43

Material Casing black anodised aluminium

Operating temp 0°C up to +55°C

Operating relative humidity 20 to 95% non-condensing

Service location Safe internal location

Connectors DC i/p & fault PA/PBT push fit, shake proof plug & outlet. Mating: Phoenix Contact 1803578
Volt free i/p: PA/PBT push fit, shake proof plug & outlet. Mating: Phoenix Contact 1803675
PA/GA o/p : PA/PBT push fit, shake proof plug & outlet. Mating: Phoenix Contact 1803604
I/O Bus: 8P8C (RJ45) modular jacks
Line In: 3.5mm Stereo Jack

Ingress protection rating IP30

General

Voltage 48 Vdc \pm 10

Input sensitivity -10 dBu (0.7 V pk-pk)

Frequency response 300 Hz – 8 kHz

Consumption DC 150 mA

Heat max <10 W

Record time 12 x 80 seconds

Protection On board replaceable fuse

Fault contact Volt free (max. 60 Vdc / 30 Vac) normally closed open on fault (non-latching)

Status indicator High visibility LED display

Message initiate Volt free contact or voltage driven up to max. 12 Vdc/12 Vac*

Connectivity (all internal connectivity can be radial or self-healing loops as standard)

I/O bus 2 x 2 x RJ45 (A and B), 2 independently monitored loops allowing spur or loop connectivity of Ms12 to 2Mx switches (see 2Mx datasheets)

PA/GA 2 x 5-way terminal block accepting up to 1.5mm² solid or with suitable ferrule

Volt free initiate 2 x 12-way terminal block accepting up to 1.5mm² solid or with suitable ferrule

DC Input 2-way terminal block, accepting up to 1.5mm² solid or with suitable ferrule

Fault Output 2-way terminal block, accepting up to 1.5mm² solid or with suitable ferrule

*Contact your Eaton sales representative if higher message initiate voltages are required

Ordering requirements

The following code is designed to help in selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box

Model

Sonix-Ms12