

# Sonix™ Pbx



## Pbx to PA/GA record replay unit

### Overview

Sonix™ Pbx is a compact 19" 1U design unit, housing a compact and efficient circuit to interface the PA/GA system to site Pbx systems. It provides a means to record and playback Pbx messages via the PA/GA system, without risk of larsen effects on the playback.

### Features

- Compact 1U package chassis, 19" rack mount
- Configurable via Sonix™ software
- Connectivity with 2 W and 2 W E&M Pbx systems
- Isolated outputs to drive duplicated PAGA systems (A+B)
- Zoned or global announcements
- User prompts for operation
- Supervisor monitor and replay reject function
- Real time high integrity cable monitoring
- Design focused MTBF/MTTR
- Low thermal emissions / footprint
- RJ45 connectivity for easy maintenance
- Customisable voice prompts

The Sonix™ Pbx provides fully duplicated, synchronised and isolated outputs to ensure that both A and B PA/GA systems broadcast simultaneously. Also provided is a supervisor monitor and reject feature that allows all recorded messages to be monitored prior to broadcast. Any unwanted or inappropriate messages can simply and effectively be removed from the playback queue.

Users can use the audio prompt feature to opt for either global (all zones) or zone select message playback, ensuring at all times that only the required zones of address are selected. Upon completion of the message, the PA/GA system will broadcast the message as selected.

Connectivity to the host PA/GA systems can be either CAT6A or 2 pair twisted cable, depending upon user selection. Zoned selection is available via CAT 6, while global is available via 2 pair connectivity. Connectivity to the Pbx is either 2 wire audio, 2 wire E&M connectivity.

To ensure rapid and early warning of any system issues, all monitoring of Pbx, 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 via a Volt-free contact.

## Certifications

Certification CE, Environmental and EMC (IEC60945)

## Specifications

### Mechanical/environmental

Fixing 1U 19" industrial mounting

Weight 1.75 Kg max

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

Material Casing black anodised aluminium

Operating temp 0°C to +55°C

Operating relative humidity 20 to 95% non-condensing

Service location Safe internal Location

Connectors DC i/p & fault: polyamide push fit, shake proof plug & outlet  
Pbx i/p : polyamide push fit, shake proof plug & outlet  
PA/GA o/p : polyamide push fit, shake proof plug & outlet and RJ45

Ingress protection rating IP30

### General electrical

Voltage 48 Vdc

Input sensitivity 0dBu (770mV RMS)

Output to PA/GA 0dBu (770mV RMS) and volt free key line

Frequency response 300 Hz – 8 kHz

Consumption DC 200 mA

Heat max <10 W

Record time 120 second record time

Monitor speaker 48V speaker line output, 2 W max

Protection On board replaceable fuse

Fault contact Volt free normally closed open on fault (non-latching) & remote reporting

Status indicator High visibility LED display

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

I/O bus 2 x RJ45 (A and B), 1 independently monitored loops allowing spur or loop connectivity of Pbx to the 2Mx switch (see 2Mx datasheets)

PA/GA 2 x 5 terminal block accepting up to 1.5mm<sup>2</sup> cable

Pbx 5 terminal block accepting up to 1.5mm<sup>2</sup> cable

Monitor speaker / cancel 5 terminal block accepting up to 1.5mm<sup>2</sup> cable

Message cancel input Volt-free or 24V AC/DC input

## 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

