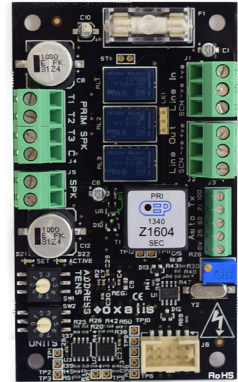


# SP AD Tu/SA

## Intelligent loudspeaker management unit for safe areas



### Overview

The Sonix SP AD Tu/SA provides supervision of the speaker voice coil, and power tap setting of the local loudspeaker. Designed to remove any false readings or error triggers typically found in such devices.

The SP AD Tu/SA works with existing speaker installations in Safe Areas and is fitted in the location of the loudspeaker.

The SP AD Tu/SA unit is designed to work within the Sonix PA/GA system, in conjunction with the 350-d amplifier and Eol 8 AD TA. Set up, configuration, control and monitoring of the SP AD Tu/Sa is done via the Sonix software, provided with the system.

Up to 50 SP AD Tu/SAs on any amplifier loop sequentially communicate with the Eol 8 AD Tu device for set up and monitoring. The power and communication is supplied by the existing loudspeaker cables, with no need for additional cables for this enhanced feature.

For use in safe areas, the unit provides fault free and seamless speaker management, without any low level noise being broadcast. The SP AD Tu/SA unit provides the means to individually monitor coil integrity, alter power loop setting, enabling quick and safe field works to be undertaken on the speakers, from the safe environment.

The Sonix PA/GA software perform silent monitoring and interrogation of each amplifier loop and speaker connected to the system, checking for open, short, earth and loudspeaker load deviations.

Connection to the SP AD Tu/SA is simply achieved by means of two 2.5mm<sup>2</sup> field terminals.

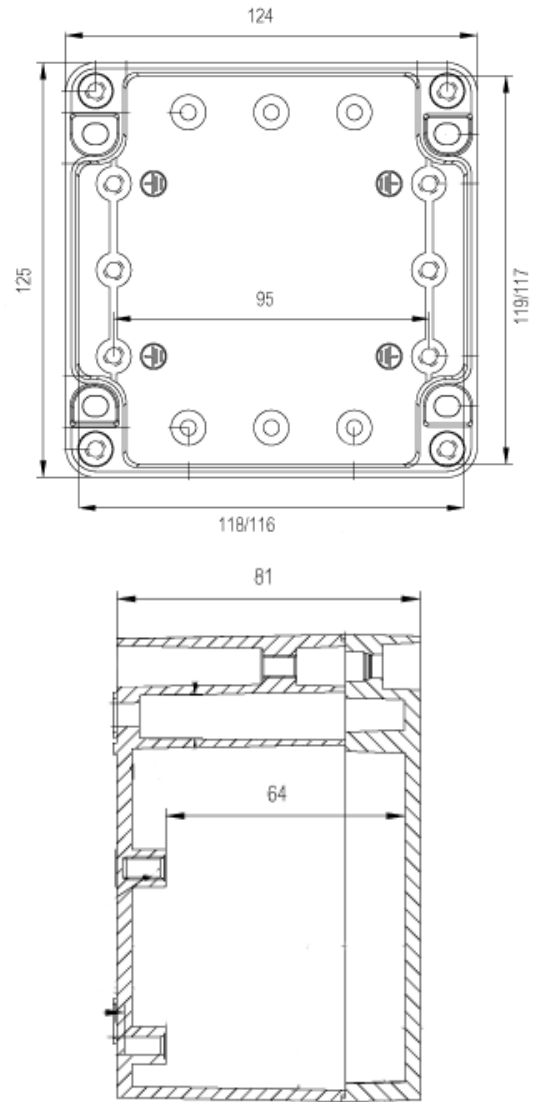
### Features

- Robust and reliable loudspeaker monitoring
- Voice coil monitoring of individual speakers
- Remote power tap changing via software interface
- Remote safe isolation of loudspeakers
- Earth, short, open and deviation checking
- Compact enclosure
- Rapid installation
- Low maintenance
- Design focused MTBF/MTTR values

## Specifications

| Mechanical/Environmental  |  |
|---------------------------|--|
| Fixing                    | 6 mm dia industrial fixings                    |
| Weight                    | 1.5 Kg   |
| Dimensions (H x W x D mm) | 124 x 125 x 81                                 |
| Material                  | Poly Carbonate                                 |
| Operating Temp            | Suitable for Operation from: -20°C to +60°C    |
| Service Location          | Safe Internal Location                         |
| Connectors                | Polybutylene screw terminals                   |
| Ingress Protection Rating | IP67   |
| Certification             | N/A  |
| Certification Information | N/A  |
| Electrical                |  |
| Voltage                   | Inaudible signal superimposed from Eol 8 AD Tu |
| Consumption Ac            | <50 mA   |

## General arrangement drawing (all dimensions in mm)



## 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   |                      |                    |  |              |  |          |   |
|---|----------------------|--------------------|--|--------------|--|----------|---|
| SonixSPADuSA  | <input type="text"/> |                    |  |              |  |          |   |
| <table border="1"> <thead> <tr> <th colspan="2">Customisation Code</th> </tr> </thead> <tbody> <tr> <td>Not required</td> <td></td> </tr> <tr> <td>Required</td> <td>1</td> </tr> </tbody> </table> |                      | Customisation Code |  | Not required |  | Required | 1 |
| Customisation Code  |                      |                    |  |              |  |          |   |
| Not required  |                      |                    |  |              |  |          |   |
| Required  | 1                    |                    |  |              |  |          |   |