| Hacousto Holland bv Industrieweg 87 2651BC Berkel & Rodenrijs | 4EVAC | |
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| 4E-EOL quick guide | Author: | DD |
| | Design revision: | 2.0 |

SUMMARY

This document is the quick guide of the 4E-EOL surveillance module. It is addressed to trained technical personnel such as installers, service technicians and commissioning engineers.

REVISION AND APPROVAL

| Rev. | Date | Nature of Changes | Approved By |
|------|------------|--------------------------------------|-------------|
| 00 | 21-08-2020 | Original draft EOL-V04 | AJH |
| 01 | 24-08-2020 | LINK-connector added. Packaging data | AJH |
| | | | |

Bridged - EOL

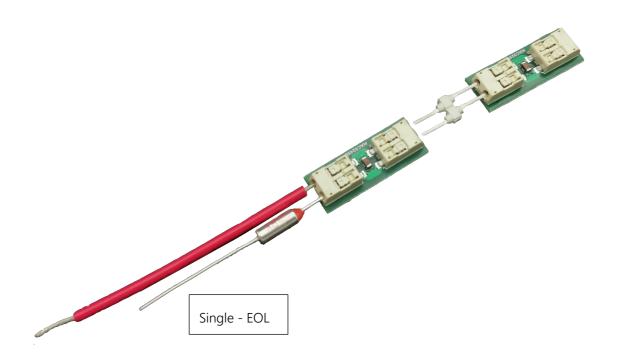


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1. 4E-EOL board

4EVAC voice evacuation systems support surveillance of loudspeaker lines based on 20 kHz impedance measurement.



Loudspeaker line with EOL module

The purpose of the 4E-EOL is to create reference load at the monitoring frequency of 20kHz. With the EOL connected, monitoring of load impedance is more accurate and less sensitive to slow and long-term impedance drift of the loudspeakers due to aging and weather conditions. It also gives the most reliable fault indication when a large number of loudspeakers is connected to a long line.

4E-EOL is required for reliable impedance monitoring of a loudspeaker line. Connect the EOL board to the end of the loudspeaker line in parallel, preferably inside the last loudspeaker on the line.

In order to prevent short-circuits caused by accidental electrical contact with sharp edges of the metal housing, the 4E-EOL board must be placed in the supplied insulating sleeve for installation.

The EOL is not polarity-sensitive.

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NOTE: The EOL module features a 135°C thermal fuse, minimizing the risk of a line short-circuit under fire conditions. Exposing the EOL board to temperatures exceeding 135°C will damage the EOL circuit and cause an open fault of the loudspeaker line.



4E-EOL board with thermal fuse

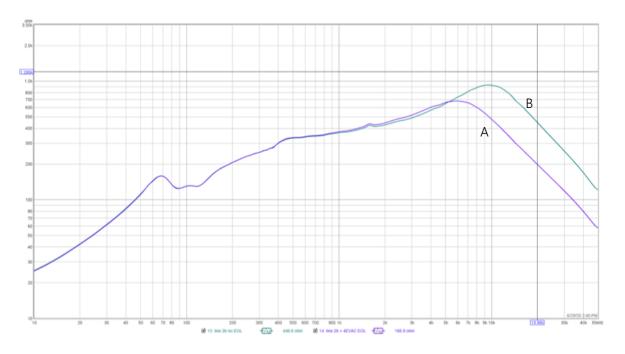
NOTE: It is required to use the EOL module on every monitored loudspeaker line, at the end of the line.

NOTE: EOL instructions are set-out in the COMPACT and SW6 user guide.

In some cases, in order to optimize the loudspeaker line impedance measurement, adjustment of the EOL impedance may be required. This is done by bridging TWO EOL's together using wires or LINK-connector (wires or bridge-connector are included). The load settings of EOL are described in the table below:

| EOL load setting | EOL impedance @ 20kHz |
|---|-----------------------|
| Single EOL | 250 Ω |
| Bridged EOL (Using wires or LINK-connector) | 125 Ω |

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Impedance characteristics of a typical 100V loudspeaker line. Line (A) with EOL, Lline (B) without EOL

2. Ordering information

The EOL boards are not supplied with the 4EVAC main unit and are available at 4EVAC as a separate product.

3. Technical specifications

| 4E-EOL | |
|------------------------------|--|
| Electrical | |
| Surveillance method | Impedance measurement with EOL |
| Centre frequency | 20kHz |
| Impedance @ centre frequency | 250 Ω |
| Impedance @ 1kHz | >7.5 kΩ |
| Mechanical | |
| Dimensions (HxWxD) | 32 x 12 x 6 mm |
| Weight | 6 g |
| Mounting | Inside loudspeaker housing or at the end of loudspeaker line |
| Operating conditions | |
| Temperature | -5°C~40°C |
| Relative humidity | max. 90% (non condensing) |
| Storage temperature | -40–70°C |
| Package includes | 10 pcs of EOL |
| | 10 pcs of cover jacket |
| | 10 pcs of thermal fuse, type 135°C |
| | 10 pcs of connection wire RED |
| | 5 pcs of LINK-connector |

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All information provided in this document is subject to change without notice. 4EVAC may also make improvements and/or changes in the products described in this information at any time without notice.



MADE IN THE NETHERLANDS

4EVAC is a trade name of:

Hacousto Holland bv Industrieweg 87 2651BC Berkel & Rodenrijs The Netherlands

www.4EVAC.com