ecom instruments

mobile experts

Ex-TRA 80 Aurelis*

Safety instructions

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Note:
The current operating manual, the EC Declaration of Conformity and the Ex-certificate can be downloaded from the relevant product page at www.ecom-ex.com, or alternatively they can be requested directly from the manufacturer.

1. Application

The Ex-TRA 80* Aurelis is an intrinsically safe speaker microphone set for industrial application in areas with an increased risk of explosion in zone 1, zone 2, zone 21 and zone 22 in accordance with directives 1999/92/EC (ATEX137), 94/9/EC (ATEX95) and the IECEx system.

2. Safety information

These safety instructions contain information and safety regulations which are to be rigorously observed without fail for safe operations in the described conditions. Non-observance of this information and these instructions can have serious consequences or it may violate regulations.

Please read these safety instructions carefully before starting to use the device! In the event of conflicting information the details specified in the safety instructions shall apply. In case of any doubt (in the form of translation or printing errors) the English version shall apply.

3. Faults and damage

If there is any reason to suspect that the safety of the device has been impaired, it must be withdrawn from use and removed immediately from the hazardous-area. Measures must be taken to prevent it from being restarted accidentally.

The safety of the device may be compromised, if, for example:

- There is visible damage to the housing.
- The device has been subjected to excessive loads.
- The device has been improperly stored.
- The device has been damaged in transit.
- Device markings or inscriptions are illegible.
- Malfunctions occur.
- Permitted limit values have been exceeded.

4. Safety regulations

Use of the Ex-TRA 80* Aurelis intrinsically safe speaker microphone set assumes that the operator observes the conventional safety regulations and has read the certificate of conformity in order to eliminate faulty operation of the device.

4.1. Special conditions of safe use

The following points are to be observed:

- The device should only be operated with approved radio equipment.
- The device may not be opened.
- Friction of the housing should be avoided as far as possible for electrostatic reasons.
- Connect the Ex-TRA 80* Aurelis only to the designated devices stated in clause 4.2.
- Only accessories approved by ecom instruments GmbH refer to clause 4.3 may be used.
- It must be ensured that the device is not taken into zones 0 or 20.
- The unit may not be used in close proximity to processes generating high charges
- In IIC hazardous areas the applicant has t ensure that the device is electrostatically earthed, e.g. by the use of ESD clothing
- The belt clip shall only be installed outside of the hazardous areas.
- The belt clip shall not be removed from the device inside hazardous areas.

4.2 Ex-TRA 80* series combination overview

Ex-TRA 800 Aurelis for connection to THR9 Ex with Binder plug or with Nexus plug for accessories.

4.3 Accessories

Only the following headsets are allowed to connect to the Ex-TRA 80* Aurelis:

- Ex-TRA PTT-E	Ear protection headset
- Ex-TRA PTT-EH	Ear protection headset with helmet attachment
- Ex-TRA NB	Neckband
- Ex-TRA VT	Loudspeaker with skullcap microphone
- Ex-TRA FTS	Fire talk supra
- Ex-TRA FT	Fire talk
- Ex-TRA ComCom	Light weight headset with earmold
- INVISIO H-M3-**	Bone conduction earphone

Additional accessory for Ex-TRA ComCom:
- Ex-TRA SPC

INVISIO description:
H-M3-2-R1110X-E1X
H-M3-2-L1110X-E1X
H-M3-2-R1110X-E2X
H-M3-2-L1110X-E2X

5. Attach Ex-TRA 800 Aurelis to THR9 Ex

If you want to attach the Ex-TRA 800 Aurelis to the THR9 Ex please do the following steps.
At first please release the cover for the side connection via opening the screw and take off the cover. Now take the connector of the Ex-TRA 800 Aurelis and fix it to the side connector of the THR9 Ex that the cable is adjusted in the upper direction (direction of the antenna).
Afterwards tighten the screw cautiously. Be careful, you do not have to tighten the screw too solid. The screw has to be hand-tightened.
Do not detach the Ex-TRA 800 Aurelis in hazardous areas of zone 21 and 22.

6. Ex-Data

6.1 ATEX

EC-Type-Examination Certificate no.:	EPS 12 ATEX 1 473 X
Ex-Marking:	Ⓔx II 2G Ex ib IIC T4 Gb Ⓔx II 2D Ex ib IIIC T130°C Db
Ambient temperature Ta:	-20 °C … +55 °C

Approved for zone 1 and 2, device group II, explosive group IIC (explosive gases, vapors or mist), temperature class T4.
Approved for zone 21 and 22, device group III, explosive group IIIC (combustible flying, non-conductive dust), maximum temperature 130°C.

6.2 IECEx

IECEx Certificate of Conformity no.:	IECEx EPS 12.0027X
Ex-Marking:	Ex ib IIC T4 Gb Ex ib IIIC T130°C Db
Ambient temperature Ta:	-20 °C … +55°C

Approved for zone 1 and 2, device group II, explosive group IIC (explosive gases, vapors or mist), temperature class T4.
Approved for zone 21 and 22, device group III, explosive group IIIC (combustible flying, non-conductive dust), maximum temperature 130°C.

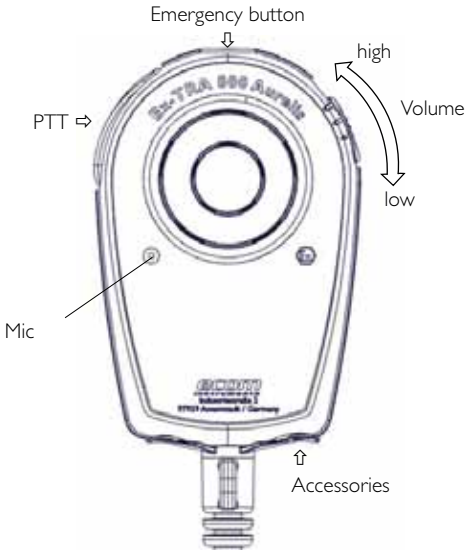
7. Specifications

Microphone:	
Pattern:	electret
Directional:	omni-directional
Impedance:	1200 Ohm
Sensitivity:	-38 dBV / Pa, 1kHz
Frequency:	50 Hz – 16 kHz
Loudspeaker:	
Pattern:	dynamic
Impedance:	8 Ohm at 1 mW / 1 kHz
Sound pressure level:	max. 86 dB
Frequency range:	200 Hz – 8 kHz
Additional data:	
Lifetime (PTT button):	minimum 100.000 cycles
Protection class:	IP 54
Weight:	approx. 200 g
CE-designation:	CE 0102

8. Functional description / operating instructions

Please read these operating instructions carefully so that you are familiar with, and are able to use, all of the functions of your Ex-TRA 80* Aurelis. For your own safety and information please read through the instructions on the following pages!

8.1 Functional description



8.2 Connecting the Ex-TRA 80* Aurelis

To use the remote speaker microphone with PTT button link the connector with the radio, while the radio is switched off. Now switch on the radio and the Ex-TRA 80*Aurelis is now set in receiving mode.

8.3 Operating instructions

Press the PTT button if you want to submit a message. The radio switches from receiving mode to transmitting mode. The radio switches automatically back if you release the PTT button. With the volume control slider you can increase or decrease the sound volume. You can choose three different volumes, high, medium and low.
The removable cloth clip on the backside of the Ex-TRA 80* Aurelis is turnable by 360°. Therefore you can attach it to any kind of clothing. To remove the cloth clip from the Ex-TRA 80* Aurelis pull the strap in directions of the cloth clip and at the same time pull the cloth clip in directions of the top side of the Ex-TRA 80* Aurelis.

8.4 Connecting accessories

You can connect the accessories (listed in 4.3) via Nexus plug or via Binder plug.

8.5 Care

From now and then you should clean the Ex-TRA 80* Aurelis with a soft cloth, only moisture with water.
When cleaning the speaker microphone do not use any alcohol, cleaning agent or detergent.

Caution:
Check the receiving volume every time using your headset and your accessories; adjust volume if necessary. Signals that are too loud can permanently damage your hearing.

9. Repair

Repairs are to be conducted by ecom instruments GmbH or by personnel or service centers authorized by ecom instruments GmbH, because of the safety of the device needs to be tested after repairs are implemented.
To facilitate the repair processes please complete and submit the enclosed repair report sheet.
The actual repair report sheet can be downloaded from the service area at www.ecom-ex.com.

10. Cleaning, maintenance and storage

- Only use a suitable cloth or sponge to clean the unit. Do not use any solvents or abrasive cleaning agents when cleaning.
- It is recommended that you have the functionality and accuracy of the unit inspected by the manufacturer every two years.

11. Disposal

Old electrical devices as well as "historical" old electrical devices from ecom instruments GmbH are supplied for disposal at our expense and disposed of free of charge in accordance with European Directive 2002/96/EC and the German electrical law of 16/03/2005. The costs associated with returning devices to ecom instruments GmbH are to be borne by the sender.

12. Warranty and liability

In accordance with our general terms and conditions ecom instruments GmbH provides a warranty for this product for a period of two years regarding its function and material under the specified and permitted operating and maintenance conditions. This excludes all parts that are subject to wear and tear (e.g. ear pads, windscreen, earpieces and other such components).

This warranty does not extend to products that are used improperly, have been modified, neglected, damaged on accidents or exposed to abnormal operating conditions and inappropriate handling.
Any claims under the warranty can be invoked by returning the defective equipment to the manufacturer. We reserve the right to repair, adjust or exchange the device.

The aforementioned guarantee conditions are the sole and the only right of the purchaser to compensation, are exclusively valid and replace all other contract or legal warranty obligations. ecom instruments GmbH assumes no liability for special, direct, indirect accompanying or consequential damage as well as losses including the loss of data, independent of whether it was caused by violation of the warranty obligation, lawful or unlawful action, action in good faith or any other action. If the limitation of a legal warranty as well as the exclusion or limitation of accompanying or consequential damage is not permissible in certain countries, it may be that the aforementioned limitations and exclusion are not valid for every purchaser. Should any such clause of these warranty conditions be declared ineffective of unenforceable by a competent court, then the effectiveness or enforceability of any of the other conditions of these warranty conditions shall remain unaffected by such a judgement.

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