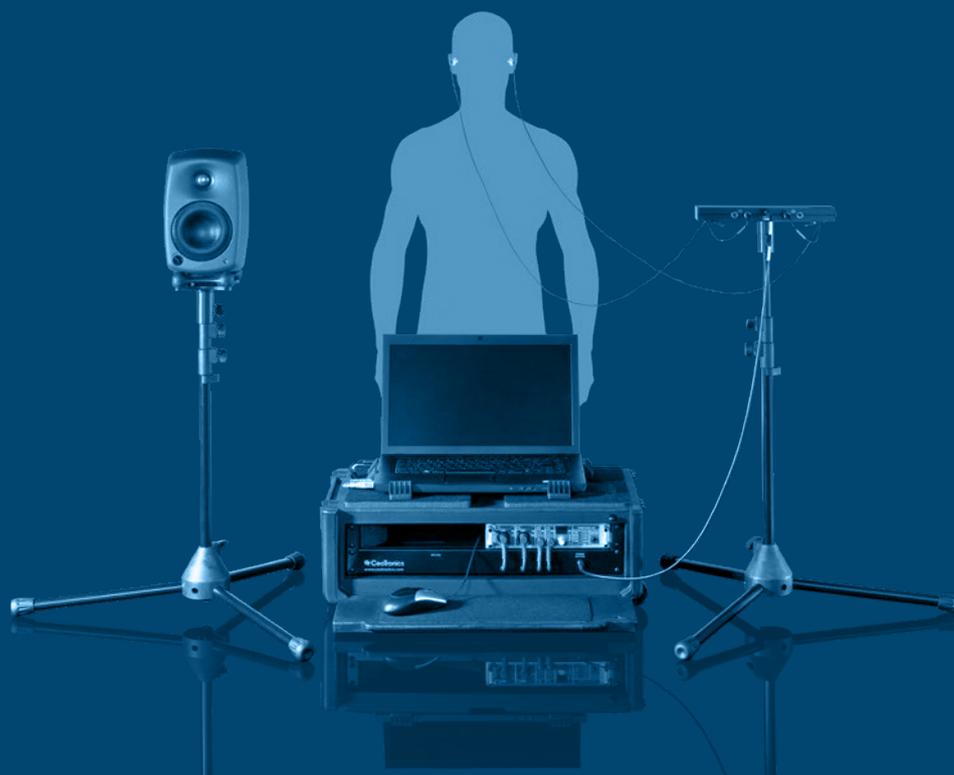


# CT-EarGuard

- Precise measurement of sound insulation
- Preparation of measurement certificates, conforming to EN 352
- Robust systems for use in the field





**CeoTronics:**  
More than just headsets.

For over 30 years, CeoTronics have developed and produced innovative communication systems for demanding environments. We are the leading supplier of mobile digital radio networks and terminal equipment as well as high-quality communication headsets and systems for professional use.

CeoTronics communication systems, including effective hearing protection and other protective functions, are far superior to simple hearing protectors because users can still communicate with each other even under the most adverse conditions. Whether working, for example, in noisy or dangerous environments or wearing personal protective equipment (PPE), CeoTronics systems offer more protection in the workplace, increased productivity and efficiency.

CeoTronics provides communication systems and services for a wide variety of professional groups and can also develop bespoke solutions for your company. Let

us convince you. We have a 100 % recommendation rating based on years of customer surveys.

**Certified and guaranteed**  
In February 2016, CeoTronics became the first company in the communications industry to be certified according to ISO 9001:2015. Then in 2018, CeoTronics successfully obtained certification according to the new PPE Regulation (EU) 2016/425. By 2002, CeoTronics was already successfully manufacturing according to the ATEX Guideline 94/9 EG for the first time. This certification according to the current directive 2014/34/EU could be renewed without any objections at the beginning of 2019.

A guarantee period of 3 years is assured for all CeoTronics products.

For more information, go to: [www.ceotronics.com](http://www.ceotronics.com)



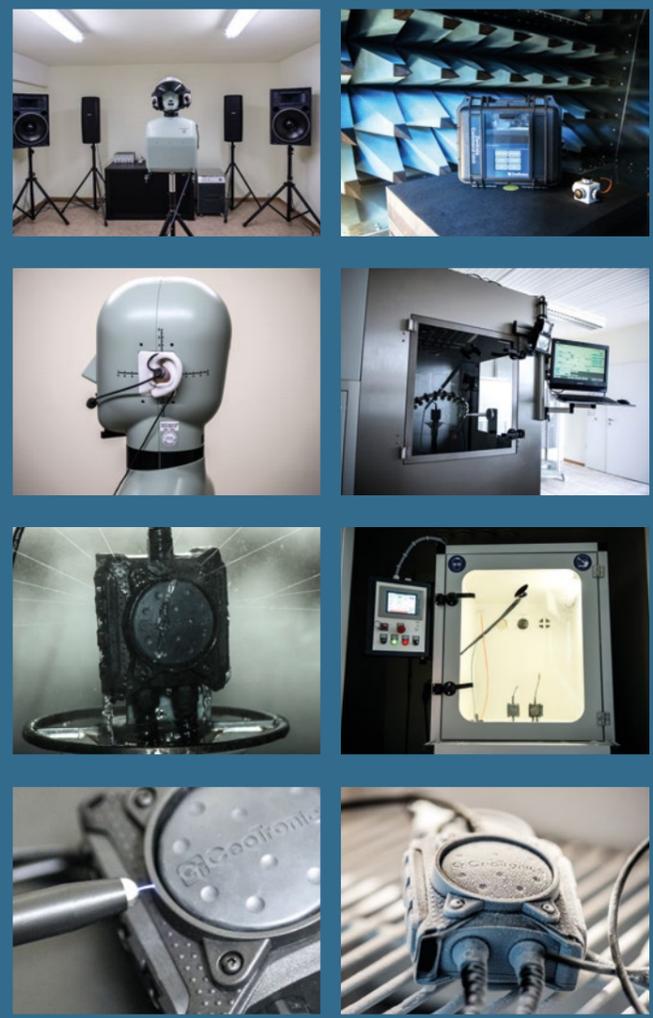
**Efficient laboratories:**  
Test, measuring and testing facilities.

By choosing professional communication systems from CeoTronics, you are opting for communication solutions with German engineering know-how that deserve the “Made in Germany” seal of quality. As a holistically oriented company, we naturally also offer our customers technical services at our own testing, measuring and inspecting facilities.

We can perform the following inspections for you at our high-performance laboratory:

- Testing individual PPE products (OTP) on test subjects according to the PPE Regulation using the CT-EarGuard System
- Climate and temperature tests according to MIL standards
- Subjective and objective measurements of sound insulation in our acoustics laboratory based on the PPE Regulation
- Accompanying development EMV-Pre-Compliance examinations with GTEM cell and standard-compliant ESD-examinations
- IP tests according to DIN standard
- Case tests according to MIL standard
- Simulated submersion testing up to 30m
- Alternate bending inspections for cables
- Tensile test for plug connections

Talk to us about your requirements, we gladly develop you a customised offer.



# CT-EarGuard



## Checking the individual ear adapters to ensure a perfect fit

With CT-EarGuard, the mobile sound insulation measurement system for testing the quality of individual ear adapters, CeoTronics offers customers a practical way to add value to their investment. CT-EarGuard can be used to make rapid checks to verify that the assumed level of ambient noise protection for a send/receive system is met in each case. The innovative measurement system is based on a guideline published by the German employer's liability insurance associations, who recommend regular testing – not only on delivery, but also at intervals of one to two years. The CT-EarGuard system was designed for mobile use by the user and enables the simple, rapid measurement of the sound insulation provided by molded earpieces (otoplastics) via a user-friendly software interface.

**Checking for a perfect fit takes just a few minutes**  
This simultaneous differential sound level measurement of the left and right molded earpiece can generally be used to determine a good fit. This makes the system absolutely ideal for testing a large number of earpieces – for infantry units, for example.

**Simple data management using barcodes**  
Data management for CT-EarGuard was developed with the aim of achieving the rapid, simple and secure entry of data. Any molded earpieces already measured can be read in using a barcode scanner.

**Uncomplicated – and certified**  
However PPE certification only becomes valid once proof has been provided of the „fit test“, i.e. that the

respective individual molded earpiece provides a level of sound insulation in accordance with EN 352. With CT-EarGuard, CeoTronics customers can now have the hearing protection capabilities of their send/receive systems tested by CeoTronics technicians, or they can test them themselves. If leakage is detected during measurement, then corrective measures are initiated directly.

A follow-up test is recommended after 2 years, since the auditory canal can change during this time and the level of sound insulation may no longer be adequate.





Products with this label are developed or designed and produced in Germany by CeoTronics.



CeoTronics was the first company in its communications sector to be certified according to ISO 9001:2015 back in 2016. This was followed in 2018 by successful certification in accordance with the PPE Regulation (EU) 2016/425. Since 2019, CeoTronics has been certified in accordance with the current ATEX Directive 2014/34/EU.

In February 2023, the company was certified in accordance with the international ISO 14001 standard for environmental management and sustainability – as the first EU company in the industry. The certificate confirms CeoTronics' forward-looking thinking and actions, its consistent focus on sustainable business practices, and its wide-ranging commitment to protecting the environment.

**The holistic service from CeoTronics:**  
For the best price-/performance ratio.

<p><b>CT-Analytics</b></p> <p><b>Expertise means safety</b> Preliminary examinations and feasibility analyses</p>	<p><b>CT-Training</b></p> <p><b>Increase in efficiency</b> Product training and system commissioning</p>
<p><b>CT-EarGuard</b></p> <p><b>Occupational safety for employees according to PPE Regulations:</b> Safety for companies</p>	<p><b>CT-Engineering</b></p> <p><b>Customer-specific product developments</b></p>
<p><b>CT-Product Guarantee</b></p> <p><b>Additional warranty period –</b> lower repair costs</p>	<p><b>Delivery Guarantee</b></p> <p><b>Ready to ship in 48 hours</b></p>
<p><b>CT-Software Service</b></p> <p><b>Individual like the fields of application-</b> Programming and up-to-date service</p>	<p><b>CT-Maintenance</b></p> <p><b>For employers and employees</b> Increase occupational safety, reduce risks of failure</p>
<p><b>CT-Measurement and Testing Facilities</b></p> <p><b>IP, EMC pre-checks according to DIN, EN and IEC standards and cable tests</b></p>	<p><b>CT-Obsolescence Management</b></p> <p><b>Fit/Form/Function offers security</b> For your procurement period</p>



\*If not otherwise stated in the offer, CeoTronics grants a 3-year warranty for material and manufacturing defects for CeoTronics products. The precise scope of the warranty can be found in the warranty terms and conditions (also available for download at [www.ceotronics.com](http://www.ceotronics.com)).

All of the brands, trademarks and product names mentioned in this brochure remain the property of their respective owners.



## CeoTronics AG

Audio · Video · Data Communication

Adam-Opel-Str. 6

63322 Rödermark (Germany)

Tel.: +49 6074 8751-0

Fax: +49 6074 8751-265

E-Mail: [sales@ceotronics.com](mailto:sales@ceotronics.com)

Web: [www.ceotronics.com](http://www.ceotronics.com)