

EAGOSH meets CeoTronics

Report on a visit to the CeoTronics factory in Roedermark – November 2014

As part of the 37th EAGOSH Meeting we had the great opportunity to visit the research and development departments of CeoTronics in Roedermark, near Frankfurt. CeoTronics is a well-known manufacturer of mobile digital radio networks, terminal equipment and professional communications headsets and systems. The company has been founded in May 1985, today more than



150 employees around the world are working on the further development and improvement of high-end audio-, video and data communication solutions „Made in Roedermark.“

Our visit focused on communication solutions which are designed for usage in an aviation environment. We started with a presentation on the portfolio of CeoTronics, followed by very interesting lectures on the 3-way-communication solution, which is a combination of CT-DECT, Bluetooth and CT-ASR, and the presentation of the CT-NoiseProtection Helmet with included communication solutions; a communication solution for extreme noise environments of up to 140db.

For the probably most impressive part of the tour, the EAGOSH participants were divided into three groups. Horst Tron, Dieter Fueller and Andreas Hitzel gave guided tours through the laboratories and the test areas of CeoTronics Roedermark.

The first stop for my group was the presentation of the portable measurement laboratory for the personal adaption of in-ear-solutions combining hearing protection and a communication system. Second stop was the acoustic lab equipped with an acoustic measurement head (from Bruel and Kjaer). This lab is designed to re-create the noise environment which can be found on the apron. Additionally, we had the chance to have a look into the G-TEM cell (Gigahertz Transverse Electromagnetic Cell) and the enclosed EMC (electromagnetic compatibility) measuring facility, which is used to test objects regarding immunity in accordance with IEC 61000-4-20. Furthermore, CeoTronics has its own TETRA (Terrestrial Trunked Radio) cell in Roedermark. Last but not least we visited the experimental room including a cable testing unit, the IP-test rig and climatic chamber for temperature and humidity simulations. We were especially interested in the rainwater, dust- and powder tests which were not only very interesting for the airline industry but also very vivid.

At the end, everybody agreed that this was a very interesting day in Roedermark. On behalf of all attendees I would like to say thank you to CeoTronics, especially to Andreas Hitzel, who organized this fascinating day.

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