



## **Information on metrological calibration of ELEN, s.r.o. products for measuring air temperature and humidity.**

The air temperature and humidity measuring probes (type THS SENSOR 40 3.3DC I2C), which are used in all other sensors of the THS type series and also in displays NDA (temperature and humidity) and NDC (time, date, temperature and humidity) type series are equipped with a digital sensor SHT31-DIS from the production of the Swiss company Sensirion. This manufacturer of measuring sensor chips ensures their calibration and guarantees their high measurement accuracy as part of its manufacturing process. The ELEN, s.r.o. company as a manufacturer of the above mentioned measuring probes, as well as the final products of the THS, NDA and NDC product series, guarantees their metrological quality with Sensirion calibration certificate and also on the basis of calibration certificates of all types of THS sensor series issued by the Czech Metrology Institute in Brno, Czech Republic.

The metrological accuracy of each THS sensor produced is tested during the product inspection process at the ELEN's measuring station using calibration etalon test devices Greisinger GMH 3330 and Greisinger GMH 3710. The results of this metrological inspection are given in the document "Product inspection certificate", which is part of the documentation supplied with the product. This process of metrological inspection of products is part of the quality management system according to ISO 9001: 2015 of ELEN, s.r.o.

Since ELEN is not an accredited calibration laboratory, metrological calibration certificates from an accredited calibration laboratory are not part of the delivery of its individual products. If the customer, due to his need, legislative requirements or the requirements of superior inspection bodies, requires a metrological calibration certificate for the product from an accredited calibration laboratory, this certificate can be mediated within the required scope of calibration as a paid service through the accredited calibration laboratory.

### **Attachments:**

1. Calibration certificate of temperature and humidity digital sensors Sensirion
2. Datasheet of temperature and humidity sensor Sensirion SHT3x-DIS
3. Calibration certificate ČMI of test device Greisinger GMH 3330
4. Calibration certificate ČMI of test device Greisinger GMH 3710
5. Calibration certificate ČMI of temperature and humidity sensor THS SENSOR 40 3.3DC I2C
6. Calibration certificate ČMI of temperature and humidity sensor THS SENSOR 40 12DC LAN
7. Calibration certificate ČMI of temperature and humidity sensor THS SENSOR 40 12DC WiFi
8. Calibration certificate ČMI of temperature and humidity sensor THS SENSOR 40 PoE LAN
9. Calibration certificate ČMI of temperature and humidity sensor THS SENSOR 52 12DC RS485
10. Calibration certificate ČMI of temperature and humidity sensor THS SENSOR 52 12DC RS485-GI