



Czech Metrology Institute

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Calibration laboratory No. 2202 accredited by the Czech Accreditation Institute according to ISO/IEC 17025:2017

Laboratory: Regional inspectorate, Okružní 31, 638 00 Brno
Department of temperature and humidity, tel. +420 545 555 314, fax. +420 545 555 183

CERTIFICATE OF CALIBRATION

6036-KL-V0147-20

Date of issue: April 28th, 2020

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Customer: ELEN, s.r.o.
Lubochnianska 16
080 06 Lubotice
Slovakia

Measuring instrument: Temperature and humidity sensor with transducer

Manufacturer: ELEN, s.r.o., Slovakia

Type: THS Sensor 40 PoE LAN

Serial number: 19/1017

Ident. number: 192.168.0.61

Description: Resolution 0,1 % RH, 0,1 °C using the PC with ELEN DataLoggerTH software version 1.20.03

External probe, s.n. 19/1017

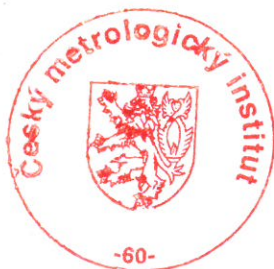
The results of the calibration have been obtained following the procedures reported in this Certificate and are related only to the date, place and conditions of the calibration.

Date of calibration: April 28th, 2020

Calibrated by:

Director of the Regional inspectorate:

Ing. Jiří Bílek



Ing. Radovan Wiecek

Metrological traceability: Measurements are traceable to (inter)national standards.

Calibration procedures: 636-MP-C119, 133-MP-C004

Place of calibration: CMI RI Brno, Okružní 31, 638 00 Brno

Ambient conditions: Temperature: $(23 \pm 3) ^\circ\text{C}$

Calibration conditions: Measuring instrument was calibrated according to the internal procedures on a standard equipment of CMI RI Brno. Humidity calibration was performed at $(23 \pm 2) ^\circ\text{C}$. During the calibration the instrument was powered by the LAN.

Results of calibration:

RELATIVE HUMIDITY

Data of standard H_{et} % RH	Data of measuring instrument H_m % RH	Uncertainty U % RH
10,0	10,8	0,6
30,0	30,6	0,7
50,0	49,3	0,8
70,0	69,2	0,9
90,0	90,3	1,1

TEMPERATURE

Data of standard t_{90} $^\circ\text{C}$	Data of measuring instrument t_m $^\circ\text{C}$	Uncertainty U $^\circ\text{C}$
-40,0	-40,1	0,3
-20,0	-20,0	0,3
0,0	0,0	0,2
20,0	20,0	0,2
40,0	39,9	0,2
60,0	59,9	0,2
70,0	69,8	0,2

The standard uncertainty of measurement has been determined in accordance with EA-4/02 M:2013 document. The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k corresponding to a coverage probability of approximately 95 %, which for normal distribution corresponds to a coverage factor $k = 2$.

End of calibration certificate.

Český metrologický institut

Oblastní inspektorát Brno

Okružní 31

638 00 Brno

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