Czech Metrology Institute
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K 2202

Calibration laboratory No. 2202 accredited by the Czech Accreditation Institute according to ISO/IEC 17025:2005

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-V0129-16

Date of issue: March 18th, 2016

Customer: BARANI DESIGN, s.r.o.
Dubová 495/11
03104 Liptovský Mikuláš

Measuring instrument: Sensor of temperature, relative humidity and dewpoint

Manufacturer: Barani
Type: Meteotemp
Serial number: 609027620
Ident. number: -
Description: MODBUS output with RS-485 - resolution 0,01 % RH, 0,01 °C

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: March 16th, 2016

Calibrated by:

Ing. Jiří Bílek

Český metrologický institut
-60-

Head of the Department:

Ing. Jan Otych

Measurement standards used: dewpoint hygrometer MBW 373LX, s.n. 12-0302, Certificate of calibration no. 30418 PTB 2014

Calibration procedures: 636-MP-C119

Ambient conditions: temperature: (23 ± 3) °C

Calibration conditions: measuring instrument was calibrated according to the internal procedures on a standard equipment of ČMI OI Brno. The values were read of display PC by SW Modbus Pool 6.4.2. During the calibration the instrument was supplied by the laboratory source. Supply voltage was 12 V DC. The instrument was calibrated in dry air at normal atmospheric pressure.

Results of calibration:

Data of standatd t_{RBet} °C	Data of measuring instrument t_{RBm} °C	Uncertainty U °C
frostpoint		
-15,00	-15,08	0,34
-5,00	-5,07	0,29
dewpoint		
0,00	0,22	0,26
5,00	5,16	0,23
10,00	9,82	0,20
19,00	18,89	0,20

The standard uncertainty of measurement has been determined in accordance with EA-4/02 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.

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-4-