



CERTIFICATE OF CALIBRATION



Location of calibration: Kibbutz Hazorea

Serial number of the certificate: 1905868/7u1 Update certificate 1905868/7

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Date of issue : 29/05/2019

Name and signature of calibrating employee: Semyon Zeyde  

Approved signatory typed name: Semyon Zeyde  

Approved signatory handwritten signature and dye-stamp : _____

Customer's name : POINTER TELOCATION LTD

Customer's address : Hamelacha 14 Afek Rosh Haayin

Identification of the calibrated item : **Temperature and humidity datalogger**

Manufacturer :	MULTISENSE TH	
Model :	715-50200	
Serial number :	51624160	
	<u>Humidity</u>	<u>Temperature</u>
Measurement range :	10 %RH÷80 %RH	-30 °C÷85 °C
Resolution :	0.1 %RH	0.1 °C
Accuracy level :	±5 %RH	±0.5°C
Specification number:	WI-C046/13	WI-C065/14
Calibration ref. doc.:	Customer data	

Item description and condition : In order

Date of calibration : 27/05/2019

Recommended next calibration: 27/05/2020

Environmental conditions: Temperature : 23°C±3°C
Humidity: 45%RH±20%RH

Calibration process description : Humidity : Calibrated in temperature and humidity controlled chamber in comparison to master sensor
Temperature : Calibrated in temperature controlled chamber in comparison to master sensor.

Compliance with the specifications : Complies with calibration specification at the measured points.

Statements of compliance with specifications according to ILAC-G8:03/2009 :

Complies – All measured values are within the specification limits when the measurement uncertainty is taken into account.

Does not comply – Some of the measured values are outside the specification limits when the measurement uncertainty is taken into account.

Not possible to state compliance or non-compliance - Some of the measured values overlap the specification limits when the measurement uncertainty is taken into account.

For details and measurement results please refer to the following pages

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%

The Laboratory reference standards are traceable to National and International reference standards.

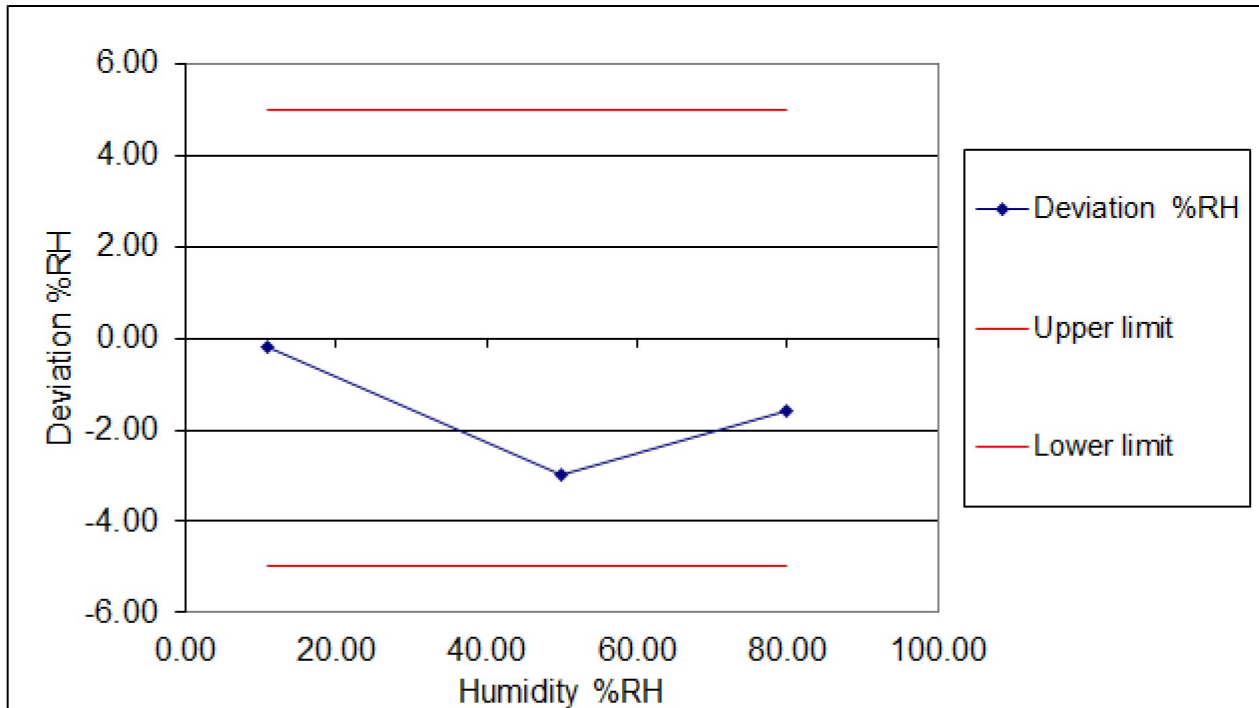
Calibration results related only to the item calibrated. This certificate need to be related in full and no part thereof shall be quoted in other document.

The use of ISRAC symbol relates to calibrations which are included in the organization scope of accreditation, and performed according to the accreditation rules as detailed in the accreditation certificate. ISRAC is one of the signatories of the International Accreditation Cooperation (ILAC) arrangement for the mutual recognition of testing results. ISRAC is not responsible for the results of the tests performed by the organization, and accreditation does not constitute a certificate of approval of any item, system or process tested.

Humidity

Nominal Temperature °C	Nominal Humidity %RH	Measured Humidity %RH	Deviation %RH	Permissible Deviation ± %RH	Uncertainty of Measurement %RH
23	10.98	10.8	-0.18	5.0	0.8
23	49.88	46.9	-2.98	5.0	0.8
23	79.78	78.2	-1.58	5.0	1.1

The deviation column determination is the result of a mathematical calculation of the "measured value" less than "nominal value".



Tested range: 11 %RH÷80 %RH

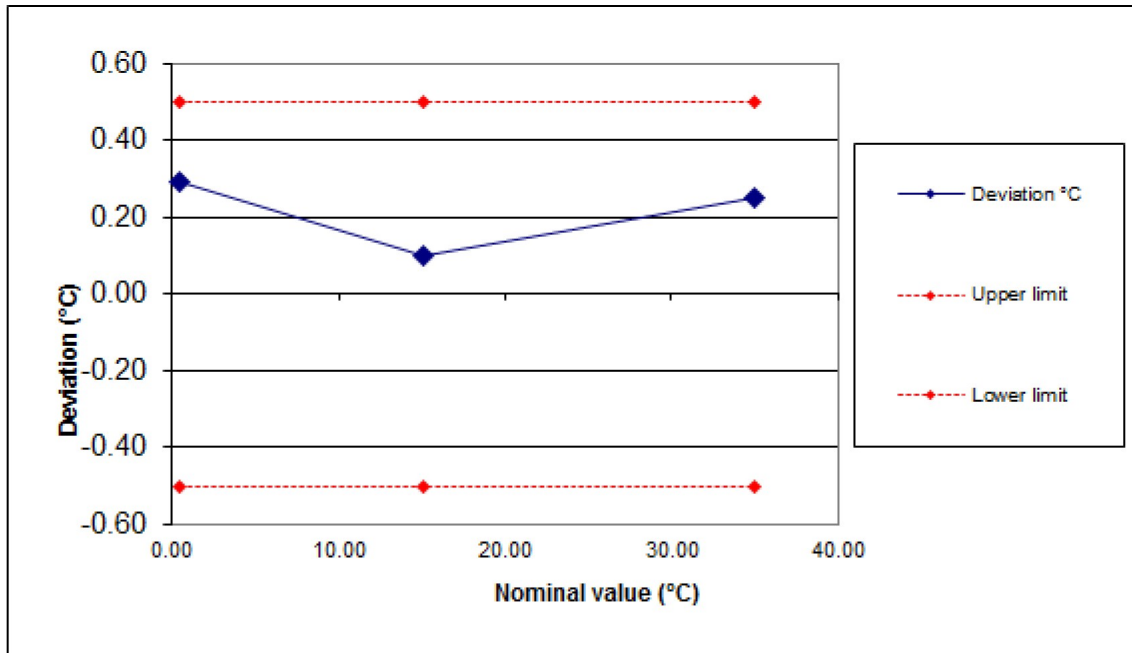
Measuring Instrument: 21-112,21-78

Reference Standard: 21-114,21-117, SAS SCS125 4774MBW2016

Temperature

Nominal value °C	Measured value °C	Deviation °C	Permissible Deviation ±°C	Uncertainty of Measurement ±°C
0.41	0.7	0.29	0.5	0.2
15.10	15.2	0.10	0.5	0.2
34.95	35.2	0.25	0.5	0.2

The deviation column determination is the result of a mathematical calculation of the "measured value" less than "nominal value".



This report is an update of the previous report due to temperature range addition.

Tested range 0°C÷35 °C

Measuring Instrument: 21-243,21-528/5,21-528/6,21-528/7,21-112,21-78

Reference Standard: 23-145,21-213,21-214,21-290,21-479,21-98,21-114,21-117

SAS SCS125 4774MBW2016

#####End of report#####