מ.ב.א הזורע טכנולוגיות כיול | QCC Hazorea Calibration Technologies
sales@mba.co.il | T: 04-9592464 | F: 04-9899222 | 36581 ,קיבוץ הזורע, ד.נ. העמקים | Kibbutz Hazorea, 36581

ISRAC הרשות הלאומית להסמכת מעבדות ISO/IEC 17025 No. 14 מס.

CERTIFICATE OF CALIBRATION

Location of calibration: Kibbutz Hazorea
Serial number of the certificate: 1905868/2u1 Update certificate 1905868/2
Page 1 of : 3 Pages
Date of issue : 28/05/2019
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 :	51619060	
	Humidity	**Temperature**
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 : Not possible to state compliance or non-compliance.

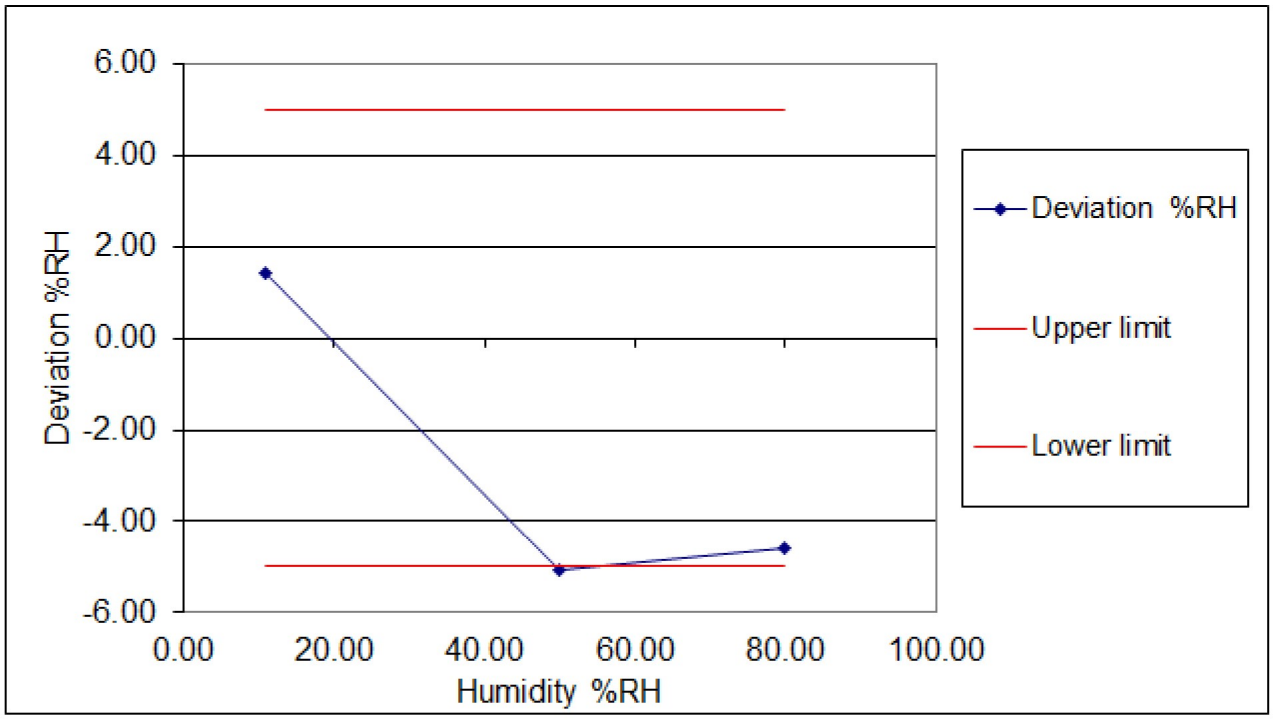
Statements of compliance with specifications according to ILAC-G8:03/2009 :
Complies – All measured values are within the specification limits when the measurement uncertainty is taken into account.
Does not comply – Some of the measured values are outside the specification limits when the measurement 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

Humidity

Nominal Temperature °C	Nominal Humidity %RH	Measured Humidity %RH	Deviation %RH	Permissible Deviation ± %RH	Uncertainty of Measurement %RH
23	10.98	12.4	1.42	5.0	0.8
23	49.88	44.8	-5.08	5.0	0.8
23	79.78	75.2	-4.58	5.0	1.1

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

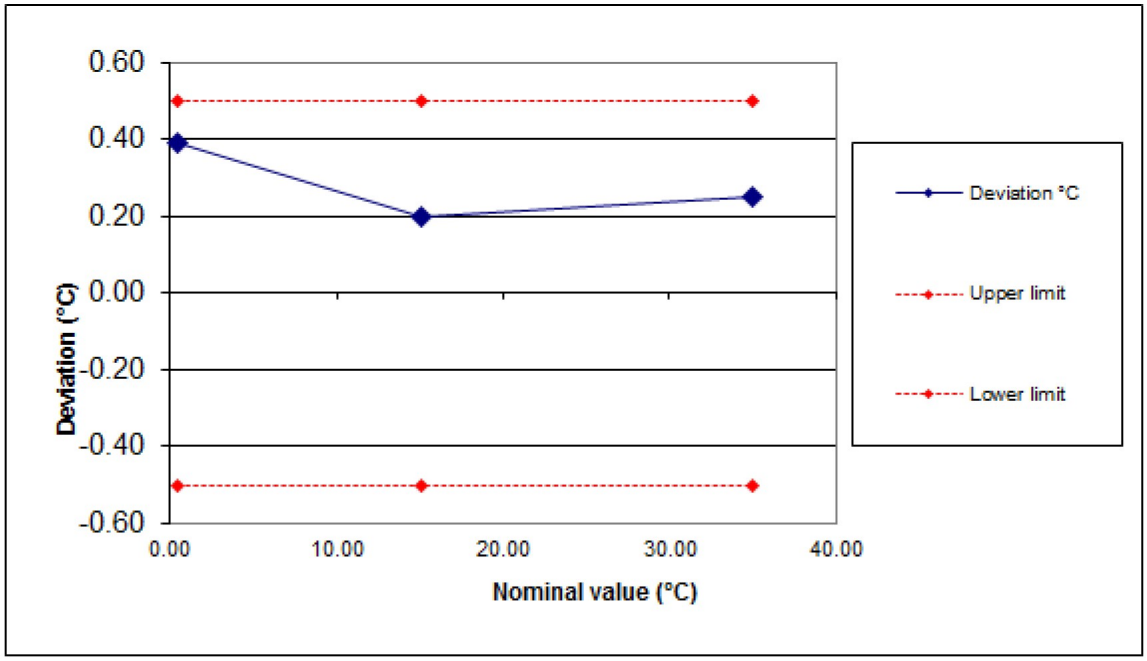


Tested range: 11 %RH÷80 %RH
Measuring Instrument: 21-112,21-78
Reference Standard: 21-114,21-117, SAS SCS125 4774MBW2016

Temperature

Nominal value °C	Measured value °C	Deviation °C	Permissible Deviation ±°C	Uncertainty of Measurement ±°C
0.41	0.8	0.39	0.5	0.2
15.10	15.3	0.20	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##########