

DPN 175 Lammas Road, Corby, Northants, NN17 9RS

Calibration Certificate Do Not Destroy

Calibration Certificate Attached: 1888289

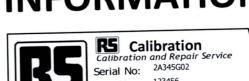
OD ref: 1241853561

GMH 3710 PT100 Type Digital Thermometer

first

IMPORTANT INFORMATION

Simply detach the label in the top right hand corner of the new front sheet and apply to your instrument as required.



Cal Date: 01 May 2014 Calibration

Recal Due:

Cert No:

DPN 175 Lammas Road, Corby, Northants, NN17 9RS

123456

For Re-Calibration of your unit please email: calibration.uk@rs-components.com or call us on 01536 405545 to arrange free collection. Please quote serial number when returning.



CERTIFICATE OF CALIBRATION

Issued by: RS Components Ltd

Date Issued:

22 Oct 2024

Certificate No.

1888289



R5 Calibration

Calibration and Repair Service

DPN 175, Lammas Rd, Weldon Industrial Est Corby, Northants, NN17 9RS

Tel: 01536 405545 Fax: 01536 401590 Page 1 of 3 Pages

Beata Kuflewska

Client

TOTAL LABORATORY SERVICES LTD

BLANDFORD FORUM

DORSET **DT11 8ST**

Instrument

GMH 3710 PT100 Type Digital Thermometer

Serial No.

32408697

Client Reference

N/A

Procedure ID.

X01_8728_(Total_Lab_Services_Ltd)_(SYSC2_95%) Rev. P1

Probe Stock No.

620-1944

Probe Description

VWR PTX 341 PT100 type general purpose probe

Date of Calibration

21 Oct 2024

Equipment U	Jsed to	Carry Out	Calibration
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Cal 1339 Cal 1340

Fluke 1586A Precision Temperature Scanner Fluke 1586-2588 DAQ-STAQ multiplexer HART 7340 high precision bath

Cal 1160

Platinum Resistance Probe

CAL 906, 1151

Equipment ID.

The measurements reported in this certificate were carried out using equipment whose values are traceable to national standards.

The management controls of the RS Calibration Laboratory are registered under the British Standard BS EN ISO 9001: 2015 No. RS 00362.

Uncertainties

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

This certificate reports recorded values for the instrument 'As Received'.

For certificate statements of conformity see Appendix SCQAR 533

The following calibration results relate only to the items defined above.

CERTIFICATE OF CALIBRATION

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R5 Calibration

Calibration and Repair Service

Environment

The ambient temperature and relative humidity throughout the calibration were (21 ± 3) °C and (50 ± 20) %RH respectively.

Method

The instrument was calibrated by comparison with reference resistance probes in a stirred liquid medium bath set to 20°C, 30°C, 40°C and 50°C.

The reference resistance probes were measured with resistance bridges to determine the true temperature of the test medium.

Prior to the calibration the instrument was allowed to stabilise in the laboratory for a period of not less than 30 minutes.

The immersion depth of the probe was not less than:

90 mm

in a stirred bath

The tested resolution of the instrument is as the displayed result.

Reference Measured emperature	Instrument Indicated	Instrument Error	Measurement Uncertainties	Specification allowance
20.000 °C	19.92 °C	-0.080 °C	± 0.038 °C	± 0.220 °C
29.994 °C	29.93 °C	-0.064 °C	± 0.039 °C	± 0.240 °C
40.004 °C	39.93 °C	-0.074 °C	± 0.038 °C	± 0.260 °C
50.032 °C	49.96 °C	-0.072 °C	± 0.037 °C	± 0.280 °C

CALIBRATED BY:- GJG

Reported values

The uncertainties quoted refer to the recorded values, which include any identified contribution of the instrument under test and not to the ability of the instrument to maintain it's calibration.

Compliance to Specification

The specification used for the probe is found in :

BS EN 60751:2022, Table 2- Tolerance class of thermometers, Class A

is used in combination with the specification published by the manufacturer as found in the instrument's handbook and has been used to determine performance at the measured points.

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Reported values not annotated

The instrument complies with the stated specification, due allowance having been made for the uncertainty of measurement which carries no implication regarding the long term stability of the instrument.

END OF CALIBRATION

Appendix SCQAR533 Certificate Statements of conformity

RS Components is standardising how it reports conformity across all disciplines in line with requirements within ISO/IEC: 17025:2017.

Where the laboratory reports a statement of conformity to a specification, guidance has been drawn on reporting structure and decision rules from ILAC document series ILAC-G8:09/2019.

Unless otherwise instructed by you the Customer, acceptance limits applied are derived from the manufacturers specification or applicable standard (e.g. DIN, EEC, BS etc.) or where applicable: SCQAR532 RS Standard Limits for Calipers, available on request.

The statements found on this certificate produced by RS Components Laboratory are as follow:

1) Reported values with No Annotation:

The instrument **passed** the stated specification, even with allowance having been made for the uncertainty of measurement, which carries no implication regarding the long-term stability of the instrument.

2) Reported values annotated with "#"

The measured result is a conditional pass to the limit but by a margin less than the measurement uncertainty, it is therefore not possible to state compliance based on the stated level of confidence.

3) Reported values annotated with "##"

The measured result is a conditional fail to the limit but by a margin less than the measurement uncertainty, it is therefore not possible to state compliance based on the stated level of confidence.

4) Reported values annotated with "###"

The measured result failed the stated specification, even with allowance having been made for the measurement uncertainty.

