

****Calibration Certificate****

Do Not Destroy

Calibration Certificate Attached: 1996703
OD ref: 1271816163

GMH 3710 Pt100 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.



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.

RS Calibration

CERTIFICATE OF CALIBRATION

Issued by: RS Components Ltd

Date Issued: 23 Sep 2026

Certificate No.

1996703



RS Calibration

Calibration and Repair Service

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959

Tel: 01536 405545
Fax: 01536 401590

Gerard Greenland

Client

TOTAL LABORATORY SERVICES LTD
BLANDFORD FORUM

DORSET

DT11 8ST

GMH 3710 Pt100 Digital Thermometer

32408697

Client Reference Meter

N/A

Client Reference Probe

N/A

Procedure ID.

X01_8728_(20_30_40_50°C)_(SYSC2_95%) Rev. P2

Probe Stock No.

N/A

Probe Description

VWR PTX 341 Pt100 General Purpose Temperature Probe, 150 mm Length

Date of Calibration

23 Sep 2026

Equipment Used to Carry Out Calibration

Equipment ID.

Fluke 1586A Precision Temperature Scanner

CAL 1339

Fluke 1586-2588 DAQ-STAQ multiplexer

CAL 1340

HART 7340 high precision bath

CAL 1537

Platinum Resistance Probe

CAL 902, 905

HART 6330 high precision bath

CAL 1134

Platinum Resistance Probe

CAL 906, 907

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 $k = 2$, which for a normal distribution corresponds to a coverage probability 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.

This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

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Environment

The ambient temperature and relative humidity throughout the calibration were $(21 \pm 3) ^\circ\text{C}$ and $(50 \pm 25) \%$ h respectively.

Method

The instrument was calibrated in the sequence of: 20, 30, 40 & 50 $^\circ\text{C}$ by comparison with reference resistance probes in stirred liquid medium baths.

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 stirred baths

The UUT was set to type: PT100

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

Reference		Instrument		Measurement	
Measured Temperature	Indicated	Error	Uncertainties	Specification allowance	
20.039 $^\circ\text{C}$	19.96 $^\circ\text{C}$	-0.079 $^\circ\text{C}$	$\pm 0.042 ^\circ\text{C}$	$\pm 0.440 ^\circ\text{C}$	
30.033 $^\circ\text{C}$	29.97 $^\circ\text{C}$	-0.063 $^\circ\text{C}$	$\pm 0.042 ^\circ\text{C}$	$\pm 0.490 ^\circ\text{C}$	
40.018 $^\circ\text{C}$	39.94 $^\circ\text{C}$	-0.078 $^\circ\text{C}$	$\pm 0.043 ^\circ\text{C}$	$\pm 0.540 ^\circ\text{C}$	
50.030 $^\circ\text{C}$	49.97 $^\circ\text{C}$	-0.060 $^\circ\text{C}$	$\pm 0.042 ^\circ\text{C}$	$\pm 0.590 ^\circ\text{C}$	

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 classes for Thermometers Class B
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.

