

CERTIFICATE OF CALIBRATION



Issued by: **Gemini Data Loggers (UK) Ltd**
Date of Issue: **2011-08-19**
Certificate Name: **TCAL-625866-102**
Operator Name: **Wayne Byrne**
Procedure: **PRG11 issue 4**
Customer Name: **Berman S.I.**
Instrument: **TGU-4500 Tinytag Ultra 2 Internal Temp/RH**
Serial Number: **625866**
Order Number: **49728**

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Method of Calibration

The unit under test was set to record data and its sensor submerged in a high stability temperature bath. After a stabilising period not less than 60 minutes at each setting, the temperature of the bath was measured using the laboratory standard. At the end of the calibration the corresponding readings from the unit under test were recorded.

The overall expanded uncertainty estimate for the calibration process is 0.14°C at 0°C, 0.11°C at 30°C and 0.16°C at 50°C

Laboratory Standard

Ametek Jofra DTI-1000 high precision temperature indicator S/N 013078-01279 (TH45) with primary PT100 probe S/N 564674-09. The indicator and probe are UKAS calibrated as a system with certificate number 0316011 dated 2011-05-24 from accredited calibrator number 0078. The calibration of this standard expires on 2012-05-23.

Measurements

Channel	Applied	Measured	Error
Temperature	7.90 °C	7.97 °C	0.07 °C
Temperature	29.61 °C	29.73 °C	0.12 °C

The measurements were all taken on **2011-08-19**

Certified by:

This product is calibrated by Gemini Data Loggers (UK) Ltd registered to BS EN ISO 9001:2000 (Certificate No. 6134)

Notes:

1. Calibration uncertainties quoted are for a confidence probability of not less than 95%
2. Indicated values on the laboratory standard were corrected where necessary using data from the calibration certificate. Linear interpolation between calibration points is assumed.
3. This certificate may only be reproduced in full.