

# CALIBRATION SERVICES



**FilesThruTheAir™** offers a traceable calibration certificate service for temperature and humidity data loggers, using reference equipment which has been calibrated by a UKAS accredited laboratory and using apparatus traceable to national or international standards.

A table of our standard calibration check points can be seen below and a sample Certificate of Calibration is overleaf.

## CALIBRATION CHECK POINTS

Product Type	Check Type	Check Points
CAL-T Standard	Three Point	-10°C, 20°C, 40°C
CAL-T Fridge	Two Point	2°C, 8°C
CAL-T Freezer	Two Point	-25°C, -18°C
CAL-T ULT	Two Point	-70°C, 0°C
CAL-T TP	Four Point	-10°C, 5°C, 25°C, 40°C
CAL-TH	Two Point T and H	20°C, 40°C, 35%RH at 20°C, 75%RH at 20°C
CAL-TC	Five Point Temperature	25°C, 50°C, 100°C, 140°C, 350°C

## Other Calibration Certificate Services

If you require a calibration certificate which complies with the requirements of ISO/IEC 17025:2005, FilesThruTheAir also offers a **Full UKAS Calibration Certificate**. We are happy to quote for any quantity of data loggers with Full UKAS Calibration, upon request. Please contact our team on [support@filesthrutheair.com](mailto:support@filesthrutheair.com) or +44 (0)1425 651111 with confirmation of the type and number of data loggers required and the environment in which they will be used.



# SAMPLE UKAS TRACEABLE CALIBRATION CERTIFICATE



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## Certificate of Calibration

Certificate Number: SAMPLE DOCUMENT

Calibration Date: SAMPLE DOCUMENT

Submitter: SAMPLE DOCUMENT

<b>Instrument Under Test:</b>	<b>Model No:</b> EL-WiFi-TP	<b>Serial Number:</b> 208311
<b>Test Equipment Used:</b>	Espec Climatic Chamber	896
	Rotronic Hygrowin Thermohygrometer	26615

The above test equipment is certified to traceable standards.  
The temperature scale is to ITS-90 International Standard for Thermocouples.

Lab Environmental conditions at time of calibration Temp  $23^{\circ}\text{C} \pm 1^{\circ}\text{C}$  / RH  $45\% \text{RH} \pm 5\% \text{RH}$

True Reading ( $^{\circ}\text{C}$ )	Instrument Measured Value ( $^{\circ}\text{C}$ )	Error ( $^{\circ}\text{C}$ )	Uncertainty of Measurement ( $^{\circ}\text{C}$ )
-9.7	-9.0	0.7	$\pm(0.5^{\circ}\text{C} + \text{D})$
5.3	5.5	0.2	$\pm(0.5^{\circ}\text{C} + \text{D})$
25.1	25.0	-0.1	$\pm(0.5^{\circ}\text{C} + \text{D})$
39.9	40.0	0.1	$\pm(0.5^{\circ}\text{C} + \text{D})$

Temperature cycle and uniformity was conducted at full immersion with readings observed 5 minutes after stabilisation.

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

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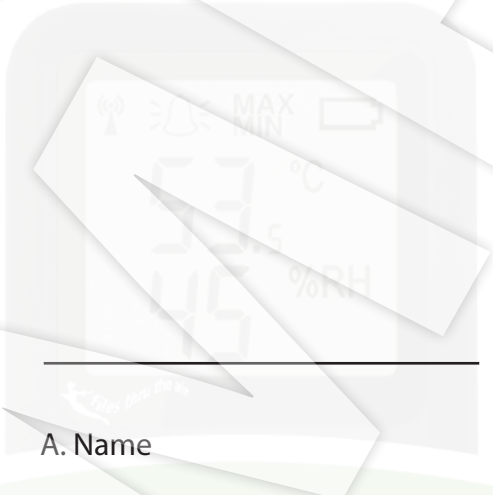
Certificate No.

## Qualification of Standard Used

This is to certify that the stated instrument has been verified at the measured values given in the results table on page 1 of this 2-page document using test equipment which itself has been calibrated and certified to the stated standard. Verification of the stated instrument was carried out on the date of issue of this certificate. The procedures and work instructions used to verify the instrument are fully documented.

The errors reported refer to measured values only with no account being taken of the instruments ability to maintain its calibration.

Signed:



Authorised Signatory:

A. Name

A. Nother Name

# CERTIFIED

