

CERTIFICATE OF CALIBRATION

ISSUED BY ROTRONIC INSTRUMENTS (UK) LTD

DATE OF ISSUE: 18th July 2019

CERTIFICATE NUMBER: 34953



rotronic
MEASUREMENT SOLUTIONS

Calibrated by: P Image

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Dates Measurements Performed:
17th & 18th July 2019
Calibration Procedure Used: RUKP20

Customer Details : Signatrol Limited, Unit E2, Green Land Business Park, Tewkesbury, Gloucestershire, GL20 8SJ
Customer's Order Number : 45821
Rotronic Ref Number : 34953
Instrument Description : Humidity & Temperature Probe
Manufacturer : Rotronic AG
Model Type : HC2A-S
Serial Number : 20340055

The hygrometer was calibrated using ROTRONIC non-saturated salt relative humidity (RH) standards, certified as traceable to National Standards. The probe was subjected to the relative humidity generated by the RH standard inside a calibration chamber, and the values taken from HW4. The calibration was conducted in controlled laboratory conditions $23\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$.

Applied Relative Humidity (%rh)	Calibration Uncertainty ** (%rh)	Indicated Relative Humidity (%rh)	Instrument Error (%rh)	Indicated Temperature ($^{\circ}\text{C}$) *	Ambient Temperature ($^{\circ}\text{C}$) *
11.3	± 0.5	11.4	+0.1	23.2	23.1
50.1	± 1.1	50.6	+0.5	23.4	23.4
75.4	± 1.3	75.6	+0.2	23.4	23.3

* Not included within the scope of the UKAS accreditation

**The uncertainties quoted apply only to values obtained during the calibration and are not indicative of long-term stability of the instrument under calibration.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

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(TSDC1 Issue 7)