CERTIFICATE OF CALIBRATION

ISSUED BY ROTRONIC INSTRUMENTS (UK) LTD

DATE OF ISSUE: 18th January 2022

CERTIFICATE NUMBER: 40145





Calibrated by: P Image

Crompton Fields, Crompton Way, Crawley, West Sussex, RH10 9EE.

Telephone: 01293 571000

Email: service@rotronic.co.uk

Fax: 01293 571008

www.rotronic.co.uk

Approved Signatory: M Smith

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Dates Measurements Performed:

17th & 18th January 2022

Calibration Procedure Used: RUKP20

Customer Details

: Signatrol Limited, Unit E2, Green Lane Business Park, Tewksbury, Gloucestershire, GL20 8SJ : 46548

Rotronic Ref Number

Customer's Order Number

: 40145

: Humidity & Temperature Probe

Instrument Description Manufacturer

: Rotronic AG

: HC2A-S

Model Type 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 $^{\circ}$ C \pm 2 $^{\circ}$ C.

AS-FOUND RESULTS

AS-FOOND RESOLTS							
Applied Relative	Calibration	Indicated	Instrument Error	Indicated	Ambient	Instrument Error	
Humidity (%rh)	Uncertainty **	Relative	(%rh)	Temperature	Temperature	(°C) *	
	(%rh)	Humidity (%rh)		(°C) *	(°C) *		
19.8	±0.6	18.7	-1.1	22.3	22.3	0.0	
50.1	±1.1	49.1	-1.0	23.3	23.3	0.0	
75.2	±1.3	74.3	-0.9	23.6	23.4	+0.2	

POST-ADJUSTMENT RESULTS

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Calibration	Indicated	Instrument Error	Indicated	Ambient	Instrument Error
Uncertainty **	Relative	(%rh)	Temperature	Temperature	(°C) *
(%rh)	Humidity (%rh)		(°C) *	(°C) *	
±0.6	19.8	+0.1	21.5	21.3	+0.2
+1.1	50.0	0.0	22.4	22.1	+0.3
	75.2	0.0	23.5	23.3	+0.2
	Calibration Uncertainty **	Calibration Uncertainty ** (%rh) ±0.6 ±1.1 Calibration Indicated Relative Humidity (%rh) 19.8 50.0	Calibration Uncertainty ** (%rh) ±0.6 ±1.1 Calibration Indicated Relative (%rh) Humidity (%rh) 19.8 +0.1 50.0 0.0	Calibration Uncertainty ** (%rh) Humidity (%rh) ±0.6 19.8 +0.1 21.5 ±1.1 50.0 Unstrument Error (%rh) (%rh) Temperature (°C) * 21.5 22.4	Uncertainty ** (%rh) Relative (%rh) Temperature (°C) * ±0.6 19.8 +0.1 21.5 21.3 ±1.1 50.0 0.0 22.4 22.1

^{*} Not included within the scope of the UKAS accreditation

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.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written (TSDC1 Issue 8) approval of the issuing laboratory.

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