CERTIFICATE OF CALIBRATION

ISSUED BY ROTRONIC INSTRUMENTS (UK) LTD

DATE OF ISSUE:

21st July 2020

CERTIFICATE NUMBER:





Calibrated by: P Image

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

Telephone: 01293 571000

Email: service@rotronic.co.uk

Approved Signatory: M Smith

Page 1 of 1

Dates Measurements Performed:

20th & 21st July 2020

Calibration Procedure Used:

RUKP20

Customer Details

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

Customer's Order Number

: 46026

Rotronic Ref Number

: 37015

Instrument Description

: Humidity & Temperature Probe

Fax: 01293 571008

www.rotronic.co.uk

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 °C ± 2 °C.

Applied Relative	Calibration Uncertainty	Indicated Relative	Instrument	Indicated	Ambient
Humidity (%rh)	** (%rh)	Humidity (%rh)	Error (%rh)	Temperature (°C) *	Temperature (°C) *
19.9	±0.7	19.4	-0.5	23.5	23.4
50.2	±1.1	49.9	-0.3	23.6	23.5
75.4	±1.3	74.7	-0.7	22.7	22.6

^{*} 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 approval of the issuing laboratory. (TSDC1 Issue 7)

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