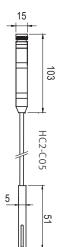
## PROBES for measurements in confined spaces

Being the second smallest combined humidity and temperature probe available the SC05 probe is well suited to applications where space is at a premium, or when the minimum intrusion is important.

Mounted on a 2m cable, the nickel plated brass 5mm probe is robust and has a fast response. In applications where dust may be present, a slip over filter is available (SP-T05).





Electrical connections: (all HygroClip2 probes with connector)

> V+  $(3.2 \text{ VDC to max. 5 VDC, } \pm 0\%;$ recommended: 3.3 VDC)

 $\bigcirc$ GND (ground, digital and power)

RXD (UART)

TXD (UART)

Analog signal %rh (0...100 %rh=0...1 V)

Analog signal °C (-40...60 °C = 0...1 V)

AGND (analog ground)

## SPECIFICATIONS:

**Applications** Probe for measurements in tight spaces

Main features Humidity range: 0... 100%rh

Temperature limits: -40... 85 °C (-40 to 185 ° F)

Diameter: 5 mm (0.20 "), cable length (electronics to probe tip: approx 2m (6.5ft)

Electronics case: polycarbonate, black Probe Material: nickel-plated brass

Probe type HygroClip® 2

Humidity sensor ROTRONIC Hygromer® IN-1 Temperature sensor Pt100, 1/3 Class B

Long term stability better than 1%rh / year

Measuring range with 0...100 %rh and -40...100 °C interchangeable probe

Accuracy w. adjustment at 23 °C and 10, 35, 80 %rh ± 0,8%rh / ± 0,1 K profile "standard"

Accuracy w. adjustment at 23 °C and 10, 20, 30, 40, 50, 60, 70, 80, 90 % rh ±

profile "High Precision" 0.5%rh / 0.1 K

Accuracy w. adjustment at 3 selectable temperatures from -10 to 70 °C and 20

profile "Custom" selectable humidity values ± 0.5%rh / K 0.1

Reproducibility Airchip < 0.02 %rh / 0.01 K Response time t 63 < 15 seconds

typically 1 second (without calculations) Measurement interval

Operating range electronics -40...100 °C and 0...100 %rh

Alertina Yes, programmable Exploitation software **ROTRONIC HW4** Statistical functions Min./ Max., Average

Probe adjustment by 1 point & multipoint %rh & °C software

Psychrometric calculations Dewpoint / frost point

System related events (FDA, GAMP) Event logging

Analogue outputs scaleable

by the user

From HW4 Devicemanager User information

Data processing via HW4 Via Interfacecabel

Device Protection by password

Sensor diagnostics (drift,

state) Audit Trail/ electronic

programmable, factory settings: Off

FDA CFR21 Part 11/GAMP Comp. records

External datalogging 2000 records

Power supply / Power  $3.2...5 \text{ VDC } \pm 0 \% / < 4.5 \text{ mA}$ consumption

Type of output signals 2 x 0...1 VDC

Analog output signal 0...1 V = 0...100 %rh 0...1 V = -40...60 °C (standard)

Digital output signal UART = Universal Asynchronous Receiver Transmitter

(standard) (ASCII) Service Interface **UART** 

Reverse voltage protection Mechanically in the plug Probe material Nickel-plated brass

PTFF Probe cable material

Enclosure material Nickel-plated brass Weight approximately 90 g

FDA CFR21 part 11 & GAMP FDA/GAMP compatibility



**UK / Europe Office** Tel: +44 (0)845 9000 601 Fax: +44 (0)845 9000 602 info@omniinstruments.co.uk www.omniinstruments.co.uk

Australia / Asia Pacific Office Tel +61 (0)282 442 363 Fax +61 (0)294 751 278 info@omniinstruments.com.au www.omniinstruments.com.au

USA / Canada Office Tel +1-866-849-3441 Fax +1-866-628-8055 info@omniinstruments.net www.omniinstruments.net