



## INDUSTRIAL PROBES, STEEL

The HC2A-SM is the robust probe from Rotronic for harsh environments and adds to the wide product portfolio. It measures humidity and temperature and calculates the dew/frost point.

### APPLICATIONS

Food, paper, textile, pharmaceutical and cosmetic industries.

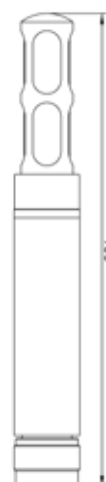
### FEATURES

- Accuracy:  $\pm 0.8$  %RH,  $\pm 0.1$  K, at 10...30 °C
- Range of application: -50...100 °C / 0...100 %RH
- Digital interface (UART) and scalable analog outputs, 0...1 V
- Standard analog output scaling: 0...1 V = -40...60 °C / 0...100 %RH
- Adjusted at 23 °C and 10, 35, 80 %RH

| Order code             | HC2A-SM   |
|------------------------|---|
| Probe type             | Chrome steel standard                                 |
| Dimensions             | Ø 15 x 109 mm   |
| Range of application   | -50...100 °C, 0...100 %RH                             |
| Accuracy               | $\pm 0.8$ %RH, $\pm 0.1$ K, at 10...30 °C             |
| Power supply           | 3.3...5 VDC, adjusted at 3.3 VDC                      |
| Current consumption    | ~4.5 mA   |
| Long-term stability    | <1 %RH / year   |
| Sensor type            | ROTRONIC HYGROMER® HT-1, Pt100 1/3 Class B            |
| Filter type            | Wire mesh filter                                      |
| Response time          | <15 s, without filter                                 |
| Max. wind velocity     | 3 m/s, without filter<br>25 m/s with wire mesh filter |
| Housing material       | Stainless steel 1.4301                                |
| Weight / IP protection | 47 g / IP65   |



HC2A-SM



Available with ATEX certificate, see page 167



### COMPATIBLE

- |                        |                         |
|------------------------|-------------------------|
| • Handheld instruments | HP32, HP23-A            |
| • Data loggers         | HL-NT2, HL-NT3, LOG-HC2 |
| • Transmitters         | HF5, HF8, PF4           |

### DELIVERY PACKAGE

- Factory adjustment certificate
- Short instruction manual
- Wire mesh filter

### RECOMMENDED ACCESSORIES

- |  |          |
|--|----------|
| • Mounting gland                           | AC1303-M |
| • Filters see page 18                      |          |
| • Extension cable 1 m, metal connector     | E2-01A-M |
| • Extension cable 2 m, metal connector     | E2-02A-M |
| • Extension cable 5 m, metal connector     | E2-05A-M |
| • Calibration device                       | ER-15    |
| • Humidity standard for calibration 10 %RH | EA10-SCS |
| • Humidity standard for calibration 35 %RH | EA35-SCS |
| • Humidity standard for calibration 80 %RH | EA80-SCS |