

HC2-S3COX-SERIES

SHORT INSTRUCTION MANUAL

HC2-S3COX Meteorological Probe

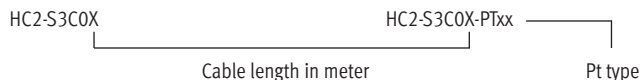
HC2-S3COX-PTxx Meteorological Probe with passive Pt100

General description

Your ROTRONIC probe is designed according to ISO 9001 and meeting EN61000-6-4 and EN61000-6-2 EMC requirements. The probe works perfectly for many years when you follow the operating guidelines.

These short instructions are limited to a description of the main functions and installation of the device. The detailed instruction manual can be found on the internet at:

www.rotronic-humidity.com



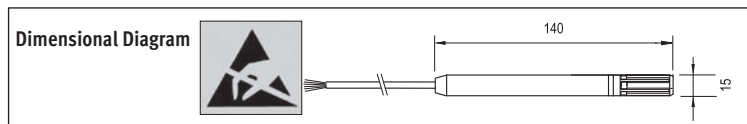
Technical Data

Operating & measuring range:	0...100 %rh / -50...100 °C
Outputs (factory default):	0... 1 V = -40...60 °C / 0...100 %rh
Digital output:	UART
Start-up time / Measurement interval:	1.5 s / 1 s
Supply voltage / Load:	5...24 VDC / 5...16 VAC / > 1 kOhm
Accuracy at 23 °C:	HC2-S3COX: ±1 %rh / ±0.2 K HC2-S3COX-PTxx: ±1 %rh / ±0.1 K (passive)
Protection rating:	IP65 (except sensor / filter area)

Wire colours	HC2-S3COX	HC2-S3COX-PTxx	HC2-S3COX-PTxx
Green	Power +, max 24 VDC	Power +, max 24 VDC	Pt100 wiring
Gray	GND (digital and power)	GND (digital and power)	black
Red	RxD (UART)	RxD (UART)	
Blue	TxD (UART)	TxD (UART)	purple
White	Analogue signal %rh	Analogue signal %rh	
Brown	Analogue signal °C	Analogue signal °C	yellow
Shield	Not connected on probe side	AGND (analogue ground)	
Black		Ptxx	orange
Purple		Ptxx	
Yellow	AGND (analogue ground)	Ptxx	
Orange		Ptxx	

Calibration and Adjustment

The probe has been factory-adjusted and comes with a calibration certificate. We recommend calibration after about 1 year, depending on use. For probe adjustment instructions, contact ROTRONIC or the ROTRONIC representative in your country.



The electronics of the probe is sensitive to electrostatic discharge (ESD) and wrong supply polarity. Make sure to be properly earthed when handling the probe. Improper handling and too high supply voltage as well as wrong connections (supply voltage on signal wires) may destroy the probe. This can be traced and will void warranty!

Accessories for programming and calibration the device

- AC3001-XX USB cable with open end to connect the probe to a PC
- AC3002-XX RS-232 cable with open end to connect the probe to a PC

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