

State of the art ASIC technology with a robust plug-in

AT/RH Sensor

5600-0316-1



Specifications

Power Supply	3.2 to 12 VDC
Current Consumption	<4mA
STANDARD MEASURING RANGE	
Humidity	0...100% rh
Temperature	-40°C.....+60°C
OPERATING RANGE	
Operating Temperature	-50°C.....+100°C
ACCURACY	
Humidity	± 1.0% RH
Temperature	± 0.1° C
Special calibration available upon request	
OUTPUT SIGNAL	
Analog	0...1/00% rh = 0...1V -100...+200°C=0...+1.0V (PT100 RTD) (HygroClip S3, white)
Digital	one wire
Sampling Time	<0.7s (minimum excitation time 3s)
RESOLUTION	
Humidity	100% rh/12 bit analog 16 bit digital, 1%
Temperature	250°C /12 bit analog 16 bit digital, ±0.1°C
CALIBRATION SENSOR	
PC (data in EE-Prom)16 bit digital	
Humidity	HYGROMER-C94
Temperature	Pt100 RTD
Analog Output Load	>10k Ohm
Maximum Cable Length	5m (1/5 ft.) with amplifier up to 100m (300 ft.)
Sensor Protection	Wire filter (20 m/s)
DIMENSIONS	
Total Length	100mm
Diameter	-15mm (0.59 in)
Connection Type	Bayonet cap on mounting connector
Protection Grade	IP65
Material Color	Polycarbonate, white

Features

- 100% interchangeable to reduce maintenance costs and eliminate downtime
- Digital and analog interface
- ROTRONIC Humidity Sensor (0...100% rh) 1.0%
- Accuracy ± 1.0% RH and ± 0.1° C
- Temperature sensor Pt100 RTD
- Long Term Stability <0.1° C/year
- Sensor module can be replaced in seconds without any loss of accuracy and without calibration
- Measuring Range - 0...100% rh and -100° C to +200° C
- Calculates dew or frost point

Ordering

5600-0316-1

Temperature Sensor with 3 Meters of Cable(no connector included - tinned pig tail ends) Includes part #E3-05XX-ACT.

5100-0021-1C

Aspirated Radiation Shield, for AT/RH 5600-0316-1



SUTRON CORPORATION

22400 Davis Drive
GS-25F604D SBSA

Sterling, VA 20164
NESDIS Certified

(703) 406-2800
ISO Certified

(703) 406-2801 Fax
EUMETSAT Certified

www.sutron.com
CE Certified

sales@sutron.com
INSAT Certified

page 1
6/27/2011