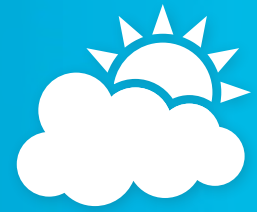


Hygroclip2 AT/RH Sensor

5600-0315 & 5600-0316



SPECIFICATIONS	
<i>Specifications subject to change without notice</i>	
Power Supply	5.....24 VDC (5600-0316)
Current Consumption	<4mA
MEASURING RANGE	
Humidity	0...100% RH
Temperature	-100°C to +200°C
Long Term Stability	< 1 % RH / year & < 0.1°C / year (AT)
OPERATING RANGE	
Temperature	-50°C to +100°C
ACCURACY	
Humidity	± 0.8% RH
Temperature	± 0.1° C (K)
High Precision: ± 0.5% RH / ± 0.1°C (K)	
OUTPUT SIGNAL	
Analog	0..1V = 0...100 % RH 0...1V = --50....+60 °C
Digital	one wire
Sampling Time	<0.7s (minimum excitation time 3s)
RESOLUTION	
Humidity	0.02 % RH
Temperature	± 0.01° C
CALIBRATION SENSOR - PC (data in EE-Prom) 16 bit digital	
Humidity	HYGROMER-C94
Temperature	Pt100 1/5 DIN
Analog Output Load	>10k Ohm
Maximum Cable Length	5m (1/5 ft.) w/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
EMC Compatibility (CE)	EN50081-2, EN50082-2, 2007/108/EG
5600-0315 SUPPLY VOLTAGE	
Supply voltage (VDD)	HC2-IC, HC2-IM and HC2-IE: 3.3 V ± 0.1V All other models: 3.2 ... 5.5 VDC ± 0%
Recommended supply volt.	3.3VDC
Supply voltage during factory tests & adjustment	3.3 VDC
Supply volt. stability/ripple	See System Accuracy, effect of VDD



5600-0315
without cable

5600-0316
with cable

State of the Art ASIC Technology with a Robust Plug-In

Features

- ▶ 100% interchangeable to reduce maintenance costs and eliminate downtime
- ▶ Digital and analog interface
- ▶ Humidity Sensor (0...100% rh) 1.0%
- ▶ Accuracy ±0.8%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	
5600-0315	Air Temperature/Relative Humidity Sensor without cable
5600-0316-1	Air Temperature/Relative Humidity Sensor ;Includes 6411-1456 cable (No connector included - tinned pig tail ends.)
ACCESSORIES	
5100-0021-1C	Radiation shield, AT/RH for 5600-0316-1
6411-1456	Supply voltage adapter with 3 meters of cable