

Relative Humidity and Air Temperature

A660611



Relative humidity, temperature measurement and dew point calculation

- Outstanding accuracy and repeatability
- Integrated data acquisition and calibration history

IM5021D
A660611
IM505CD
IRTEMP

TEMPERATURE

Humidity sensor	ROTRONIC Hygromer® IN-1
Temperature sensor	Pt100 1/3 Class B
Accuracy with Standard adjustment profile	at 23°C and 10, 35, 80 %rh ± 0.8%rh / ± 0.1 K
Accuracy with High Precision adjustment profile	at 23 °C and 10, 20, 30, 40, 50, 60, 70, 80, 90 % rh ± 0.5%rh/ 0.1 K
Resolution, AirChip3000	Typically 0.02 %rh, 0.01 K
Long-term stability	< 1 %rh, 0.1°C / year
Humidity response time t 63	3...12 seconds (depending on probe type)
Measurement range	0...100 %rh, -100...200 °C (depending on probe type)
Electronics operating range	-50...100°C and 0...100 %rh
Analog output signals (standard, user scalable)	0...1 V = 0...100 %rh 0...1 V = -40...60°C
PC interface UART (standard)	with ROTRONIC interface cable HW4 compliant
Sensor	Yes (programmable, factory default = off)
Alarm function	Yes, analog & digital, programmable
Audit Trail & Electronic Records	FDA 21CFR Part 11 and GAMP compliant
Power supply & consumption	3.2...5 VDC ±0 % / typically 4 mA
Housing/probe material	Polycarbonate or stainless steel(depends on probe type)
Filter	Polyethylene insert, polycarbonate cage
Standards	CE-compliant 2007/108/EG
Part.no. A660611	RH & Temperature Hygroclip S3 with holder and convection cap
Part.no. A660610	RH & Temperature Hygroclip S3 without holder and convection cap
Part.no. A660915	RH & Temperature replacement sensor (sensor head only)
Part.no. A660920	Chain RH & Temperature Hygroclip S3 with holder and convection cap