

Temperature / Humidity sensor Galltec KPC active

Compact sensor in a rod-design with plug-in connection



Description

- The temperature humidity sensors are compact sensors in a rod-design with plug-in connection to measure relative humidity and temperature (individually or together) with high precision in air an other non-aggressive gases.
- The delivery includes the coupling plug.
- The relative humidity is measured by a capacitive sensing element and the value will be placed at the output as analog output as well.

Specifications

Туре	Temperature Sensor Humidity Sensor					
Measurement principle	Pt100 1/3 DIN acc. DIN EN 60751	Capacitive				
Measurement range	-30 +70 °C	0 100% RH				
Slope (Data Logger Meteo-40)	100	100				
Offset (Data Logger Meteo-40)	-30	0				
Accuracy						
Accuracy	± 0.2 K (-27 +80 °C)	± 2% RH (5 95% RH @ 10 40 °C)				
Additional error	± 0.007 K/K (<10 °C, >40 °C)	< 0.1 %/K (<10 °C, >40 °C)				
Operating range						
Ambient temperature	-40 +80 °C					
Minimum air speed (across sensor)	≥ 0.5 m/s					
Electrical data						
Output signal	0 1 V					
Operating supply	6 30 VDC					



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S52100

Power consumption	<1 mA		
General			
Connection	7-pol plug for shielded cable		
Dimensions	155 x Ø 20 mm		
Weight	approx. 0.1 kg		
Protection Sensor	IP 30		
Protection Electronic	IP 65		
Protection Coupling	IP 67		
Manufacturer	Galltec		

Sensor connection diagram

Sensor	Plug Pin No.	Ammonit Cable Wire Colour	Meteo-40 Analog Voltage	Supply Sensor
Temperature	7	white	Ax	
Output				
Voltage				
Ground	5	blue	Bx	
Humidity	3	brown	Ax+1	
Output				
Voltage				
Ground	2	pink	Bx+1	
Supply	4	red		9 30 VDC*
Ground	1	black		Main
				Ground

^{*}Supply voltage for usage with Meteo-40 data loggers

Cable type: LiYCY 4 x 0.25 mm²

Connect the shield logger-sided to Ground (GND)



