

Air Temperature Sensor



Description

Precise sensor for the measurement of ambient air temperature.

A radiation shield protects the sensor against rain and solar radiation.

Technical Data

Sensor

Temperature

Sensing element	Pt 100, IEC 751 1/3 class B
Output signal.....	-40..+60 °C = 84.27.. 123.24 Ω, 100 Ω @ 0 °C
Accuracy.....	0 °C ± 0.1 K, -40..+60 °C ± 0.16 K

Power Supply

Type.....	constant current supply
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Casing of Sensor

Material	Stainless steel, Plastic
Protection class.....	IP 67
Protection cap.....	Stainless steel pipe

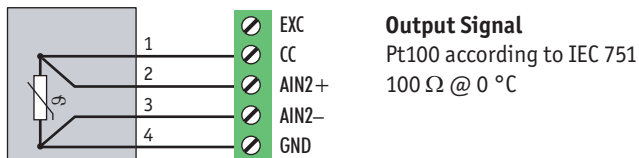
Electrical Connection

Connector 4 pin circular connector, M12x1, DIN-VDE 0627
 Cable 4 x 0.25 mm², shielded

Wiring

5 Pin Connector	Wire	Function
1	white	(+) power supply
2	brown	(+) sense
3	green	(-) sense
4	yellow	(-) power supply
n.c.	yellow/green and shield	cable shield

Connection to Data Logger blueberry COMPACT



Standard Setup

Input: **AIN2**
 Functions: **Temp (°C) = Temperature (Pt100)**

Radiation Shield

Type Naturally aspirated multi-plate radiation shield
 Material White plastic
 Dimensions ø120 x 210 mm
 Mounting Aluminium bracket for wall mounting, stainless steel
 U-bolt for installation on a pipe with ø30..50 mm outside diameter

Environmental Conditions

Operating temperature -40..+90 °C
 Relative humidity 0..100%



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