

Air Temperature Sensor *standard*



Description

Rugged and precise sensor for the measurement of the temperature of the ambient air.

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

Technical Data

Sensor

Sensing element.....	Pt 100, according to IEC 751, 1/3 class B
Transducer.....	Electronical transducer with voltage output
Output signal	-30..+70 °C = 0..1 V
Accuracy.....	± 0.2 °C
Temperature coefficient	± 0.007%/10K for T < 10 °C and T > 40 °C
Response time.....	90 s (for 90% recovery)
Output load	> 2 kΩ

Power Supply

Supply voltage	6..30 VDC
Current consumption	1 mA

Casing of Sensor

Material.....	Aluminium, lightgrey coating
Protection class	IP 31
Dimensions	ø20 x 150 mm
Protection cap.....	Stainless steel

Electrical Connection

Connector 7 pin circular connector, IP 67
 Cable 3 x 0.5 mm², optionally shielded

Wiring

7 Pin Connector	Wire	Function
4	white	(+) power supply
1 + 2	brown	ground
3	green	signal temperature
casing	yellow/green and shield	cable shield



Sensor without radiation shield

Radiation Shield

Type Naturally aspirated multi-plate radiation shield
 Material White plastic
 Dimensions ø120 x 300 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..+80 °C
 Relative humidity 0..100%



Hirschgraben 24
D-22089 Hamburg • Germany
phone: +49(0)40-75 66 08 98
fax: +49(0)40-75 66 08 99
eMail: info@wilmers.com
www.wilmers.com