

Air Temperature Sensor *economy*



Description

Economical sensor for the measurement of the temperature of the ambient air.

A semiconductor sensor converts the measured temperature into a current linearly dependent on the absolute temperature.

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

Technical Data

Sensor

Sensing element	Semiconductor
Transducer	Electronical transducer with current output
Output signal	-30..+100°C = 0.24..0.37 mA (= 1 µA/K)
Accuracy.....	± 0.5°C

Power Supply

Supply voltage.....	4..24 VDC
Current consumption	< 1 mA

Radiation Shield

Type.....	Naturally aspirated multi-plate radiation shield
Material	White plastic
Dimensions	235 x 210 x 170 mm
Weight	Approx. 1 kg
Mounting.....	Aluminium mounting bracket for installation on a wall, 2 U-bolts for installation on a pipe with 30 mm external diameter

Electrical Connection

Cable 2 x 0.25 mm²

Cable length..... 1.5 m

Terminals..... Open wires

Wiring

brown..... (+) power supply

white (-) output signal

Environmental Conditions

Operating temperature..... -30..+70°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