

AIR TEMPERATURE



The temperature transducer measures external air temperatures from -30°C up to $+70^{\circ}\text{C}$.

The sensing element is made from a thermo resistant compound, PT100, its resistance value changes according to temperature.

Its components are:

- Thermo resistant transducer PT100
- Protective chassis and supporting rod with cable coupling
- Cover

The sensing element is made of a normalised platinum wire with a resistance of $100\ \Omega$ at 0°C .

An anodised aluminium rod has the trans-

ducer at one end and a connector at the other.

The transducer is protected from adverse weather conditions including direct sunlight which may damage the instrument or affect the readings, by a ventilated cover.

The connector for attaching a manual reader or a cable to an Agisco reading unit is a male 7 pole plug.

The instrument is usually mounted on a pole together with other meteorological equipment.

It is suggested that the instrument is mounted at least 2 metres above ground level or away from any other features which may affect performance.

TECHNICAL SPECIFICATION

AMBIENT TEMPERATURE SENSOR

Type of Sensor	Pt100
Supply	1 mA
Measuring Range	-30 ÷ +70 °C
Accuracy	1/3 DIN ($\pm 0,1$ °C a 0°C)
Output	4 wire resistance variation
Dimension	Height = 275 mm Diameter = 170 mm Weight = 0,6 kg
Radiation Protection	Ventilated cover
Protection Level	IP66

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