

YT98A617

TEMPERATURE SENSORS • RESISTANCE THERMOMETERS

The temperature measurement is of great importance in many industrial applications. It is distinguished between two different measurement principles: 1. contactless and 2. media contacting. A contactless measurement is carried out via infrared radiation. It allows a measurement of temperatures up to 1800°C, as no periphery of the system, such as the probe, requires contact to the medium or object. As a result these devices are often used in forges, rolling mills or generally in steel processing companies. The media contacting measurement is usually performed in combination with a PT100 thermal resistance, which is then connected to the evaluation electronics or display devices. Areas of application for these system versions can be found in cooling systems, storage tanks, exhaust systems, extraction or ventilation systems.

MECHANICAL DATA

| | |
|---------------------------|------------------------|
| Ambient temperature | -40 °C ... 85 °C |
| Degree of protection (IP) | IP65 |
| Housing design | Cylinder, screw-thread |
| Medium temperature (MAX) | 100 °C |
| Sensor diameter | 6 |
| Sensor length | 82 |
| Storage temperature | 85 °C |
| Storage temperature | -40 °C |
| Version | Temperature sensor |

ELECTRICAL DATA

| | |
|-----------------------------------|----------------|
| Measuring accuracy of temperature | 0.5 °C |
| Resistance value at 0°C | 100 Ohm |
| Supply voltage | 10 V ... 30 V |
| Type of analog output | 4 mA ... 20 mA |
| With feed line | No |

DIMENSIONAL DRAWING

INSTALLATION



Mounting / Installation may only be carried out by a qualified electrician!

DISPOSAL



SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product

information!