



## Pt100 temperature sensor

## 7410C

- Accuracy, IEC 60751 class A
- Wall-mounted
- Red-lacquered lightweight metal housing
- Protection tube Ø 6 mm
- Ambient temperature range -50°C to +80°C

### **Application**

· Temperature measurement in general work, industrial and storage facilities as well as cold and freezing rooms.

#### **Technical characteristics**

- The sensor element is a thin film platinum resistor Pt100 laboratory-trimmed to comply with the resistance values defined in the standard IEC 60751 DIN class A.
- The advantage of a thin film element is a very short response time.
- The Pt100 element is electrically isolated from the protection tube and the terminal head.
- The protecting tube measures Ø 6 mm. It is made of stainless, acid-proof steel W No. 1.4571/ AISI 316TI, filled with aluminum oxide powder.
- · The terminal head is produced of lightweight metal and protected against corrosion through industrial lacquering.

### **Electrical connection**

· The sensor is delivered with a 4-wire connection.

#### Option

• The Pt100 temperature sensor type 7410 can be delivered with an integrated 2-wire universal temperature transmitter type 5331, 5333, 5335, 5337 or 5350 for both standard applications or applications with bus communication.

## **Environmental Conditions**

Protection degree......IP67

# **Mechanical specifications**

Protection tube	Ø 6 mm
Sensor length	80 mm
Wire connection	PG 16

# **Common specifications**

Recommended sensor current	. ≤ 2 mA
Max. temperature diffusion	
at 0°C: IEC 60751 class A	≤ ±0.03°C
Long-term stability: (≥1000	
hours at max. temperature)	. ≤ ±0.05°C
Accuracy	IEC 60751, Class A