



## Pt100 temperature sensor

### 7410C

- Accuracy, IEC 60751 class A
- Wall-mounted
- Red-lacquered lightweight metal housing
- Protection tube Ø 6 x 1
- 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 x 1 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 3 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.....  $\varnothing$  6 x 1 mm

Sensor length..... 79 mm

Wire connection..... PG 16

## Common specifications

Recommended sensor current.....  $\leq 2$  mA

Max. temperature diffusion  
at 0°C: IEC 60751 class A.....  $\leq \pm 0.03^\circ\text{C}$

Long-term stability: ( $\geq 1000$   
hours at max. temperature).....  $\leq \pm 0.05^\circ\text{C}$

Accuracy..... IEC 60751, Class A