

Temperature Measurement

SITRANS TS200

Compact
mineral-insulated

2

| Selection and Ordering data | Article No. | Ord. Code |
|---|-----------------------------------|-----------|
| SITRANS TS200 Temperature sensors in compact version, universal use, mineral-insulated version, for unfavorable space conditions | 7MC7212- | |
| Sensor diameter 6 mm (0.24 inch) Special version | 6 9 | H 1 Y |
| Length of sensor element B, effective length U see dimensional drawing on page 2/112 200 mm (7.87 inch) 500 mm (19.68 inch) 750 mm (29.53 inch) | C D E | |
| Customer-specific length of sensor element B, effective length U see dimensional drawing on page 2/112 enter customer specific length with Y44, see Order Codes below 70 ... 100 mm (2.76 ... 3.94 inch) Standard: 100 mm (3.94 inch) 101 ... 250 mm (3.98 ... 9.84 inch) Standard: 200 mm (7.87 inch) 251 ... 500 mm (9.88 ... 19.68 inch) Standard: 500 mm (19.68 inch) 501 ... 750 mm (19.72 ... 29.53 inch) Standard: 750 mm (29.53 inch) 751 ... 1 000 mm (29.57 ... 39.37 inch) Standard: 1 000 mm (39.37 inch) 1 001 ... 1 500 mm (39.4 ... 59.00 inch) Standard: 1 500 mm (59.00 inch) | B C D E F G | |
| Special length for sensor element B, effective length U see dimensional drawing on page 2/112 Special length Sensor element > 1 500 mm (59.06 inch) | X | |
| Sensor Pt100, basis, -50 ... +400 °C (-58 ... +752 °F) Pt100, vibration-resistant, -50 ... +400 °C (-58 ... +752 °F) Pt100, expanded range, -196 ... +600 °C (-320.8 ... +1 112 °F) Thermocouple Type K, -40 ... +1 000 °C (-40 ... +1,832 °F) Thermocouple Type J, only class 2, -40 ... +750 °C (-40 ... +1,382 °F) | A B C K J | |
| Number/Accuracy Single, basic accuracy (Class 2/Class B) Single, increased accuracy (Class 1/Class A) Single, highest accuracy (Class AA) Double, basic accuracy (Class 2/Class B) Double, increased accuracy (Class 1/Class A) Double, highest accuracy (Class AA) Special version of sensor type, number and accuracy | 1 2 3 4 5 6 Z 0 | K 1 Y |
| Design of connection side Solid wire ends (sensor element) Flying leads LEMO coupling 1S M12 connector, not for double Pt100 Thermocouple coupling, from TC-material (2xTC on request) Mini connection head, aluminum, not for double Pt 100 Special version, connection side | 0 1 2 3 4 5 9 | M 1 Y |

Selection and Ordering data

Order code

Further designs

Add "-Z" to Article No. and specify Order Code.

Enter sensor diameter
in plain text

H1Y

Enter sensor type, number and accuracy
in plain text

K1Y

Enter type of connection side
in plain text

M1Y

Customer-specific length of sensor element B, effective length, U see dimensional drawing on page 2/112

Select range, enter desired length in plain text
(No entry = standard length)

Y44

Additional configurations on page after next page!

You find ordering examples on page 2/107.

| Selection and Ordering data | Order code |
|---|------------|
| Options | |
| Add "-Z" to Article No., add options, separate extensions with "+". | |
| Process connection | |
| Soldering nipple G $\frac{1}{4}$ ", enclosed | A20 |
| Soldering nipple G $\frac{1}{2}$ ", enclosed | A21 |
| Soldering nipple NPT $\frac{1}{2}$ ", enclosed | A22 |
| Soldering nipple M18x1.5, enclosed | A23 |
| Soldering nipple M8x1, enclosed | A24 |
| Compression fitting G $\frac{1}{4}$ ", enclosed | A30 |
| Compression fitting G $\frac{1}{2}$ ", enclosed | A31 |
| Compression fitting NPT $\frac{1}{2}$ ", enclosed | A32 |
| Compression fitting M8x1, enclosed | A34 |
| Compression fitting, spring-loaded G $\frac{1}{2}$ ", enclosed | A41 |
| Compression fitting, spring-loaded NPT $\frac{1}{2}$ ", enclosed | A42 |
| Compression fitting, spring-loaded M18x1.5, enclosed | A43 |
| Compression fitting, spring-loaded, M8x1, enclosed | A44 |
| Surface connection piece, enclosed | A50 |
| Explosion protection (in preparation) | |
| Intrinsic safety "ia", "ic" | E01 |
| Certificates and approvals | |
| EN10204-3.1 Inspection certificate for materials coming into contact with media | C12 |
| EN10204-3.1 Inspection certificate visual, measurement and functional inspection | C34 |
| NACE Standard MR-01-75 compliance | C50 |
| ISO 9001 grease-free (cleaned for e.g. oxygen applications) | C51 |
| Setting, designation, calibration | |
| Stainless steel TAG plate , Enter lettering in plain text | Y15 |
| Plant calibration per 1 point, enter temperature in plain text. Attention: For devices with built-in head transmitters, select test points within the set measurement range | Y33 |
| Further options | |
| Special version, enter in plain text | Y99 |

You find ordering examples on page 2/107.