

FIBER OPTIC TEMPERATURE SENSORS

OVERVIEW

FEATURES

- > High accuracy
- > Resistant to high temperatures
- > Immune to EMI / RFI and microwaves
- > Completely non-conductive

| MODEL | TS2P | TS3 | TS4 | TS5 | TST |
|----------------------------|---|--|---|--|---|
| Key Features | Plain GaAs crystal at sensor tip for fast, locally resolved measurement | Robust sensor for harsh measurement environments | Completely chemically resistant for aggressive environments | Flexible fiber optic cable within a compact size | Without air inclusions, for transformer and vacuum applications |
| Applications | Universal | Universal | Harsh chemical conditions, measurements in liquids | Medical environments, catheter instrumentation | Power transformer |
| Measurement Range** | -200 °C to 300 °C | -200 °C to 300 °C | -200 °C to 300 °C | -200 °C to 300 °C | -200 °C to 300 °C |
| Accuracy** | +/- 0.2 K | +/- 0.2 K | +/- 0.2 K | +/- 0.2 K | +/- 0.2 K |
| Probe Dimension | Ø 0,45 mm L1: 2 mm | Ø 1,00 mm L1: 15 - 550 mm | Ø 1,00 mm L1: 15 - 550 mm | Ø 0,55 mm L1: 15 - 550 mm | Ø 1,60 L1: 10 mm |
| Cable Dimension | Ø 1,30 mm L: 2-20 m | Ø 1,30 mm L: 2-20 m | Ø 1,30 mm L: 2-20 m | Ø 1,30 mm L: 2-20 m | Ø 3,00 mm L: 2-12 m |
| Sensor Housing | Polyimide / PTFE | Polyimide / PTFE | PTFE | Polyimide / PTFE | PTFE |
| Connector Type | ST | ST | ST | ST | ST |
| Additional Options | | | | | with Nomex® J-Spacer with Nomex® Disk |

*1 Long-term temperature range -200°C up to +260°C, Short-term temperature range +260°C up to +300°C

*2 Statement only possible with adjusted analysis unit. See data sheet of the measurement device for information about technical data.

WEIDMANN

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