

TS2

TS3

TS4

TS5

TS Trafo

FIBER OPTIC
TEMPERATURE SENSORS
OVERVIEW

WEIDMANN

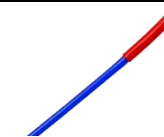
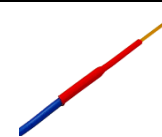
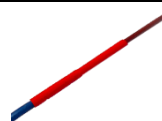
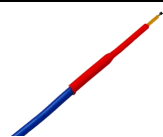
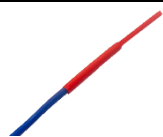
FIBER OPTIC TEMPERATURE SENSORS

- High accuracy

- Resistant to high temperatures

- Immune to EMI / RFI and microwaves

- Completely non-conductive



MODEL	TS2	TS2P	TS3	TS4	TS5	TST
Key Features	Standard sensor for a wide range of tasks	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	Universal	Harsh chemical conditions	Medical environments, catheter instrumentation	Power transformer
Measurement Range^{*1}	-200 °C to 300 °C	-200 °C to 300 °C	-200 °C to 300 °C	-200 °C to 200 °C	-200 °C to 300 °C	-40 °C to 200 °C
Inertia	~ 8 K/s	~ 20 K/s	~ 12 K/s	~ 7 K/s	~ 19 K/s (~ 4 K/s with catheter)	~ 3 K/s
Accuracy^{*2}	+/- 0.2 K	+/- 0.2 K	+/- 0.2 K	+/- 0.2 K	+/- 0.2 K	+/- 0.2 K
Probe Dimension	Ø 1,30 mm L 10 mm	Ø 0,45 mm L 2 mm	Ø 1,00 mm L 10 - 550 mm	Ø 2,00 mm L 20 mm	Ø 0,55 mm L 10 - 550 mm	Ø 1,60 / 1,30 mm L 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 1,30 mm L 2-20 m	Ø 1,30 mm L 2-12 m
Cable Coating	PTFE	Polyimide / PTFE	Polyimide / PTFE	PTFE	Polyimide / PTFE	PTFE
Connector Type	ST	ST	ST	ST	ST	ST
Alternate Version					TS5M – for catheter set	
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.