FIBER OPTIC
TEMPERATURE SENSOR

TS5

Key Features

- Temperature range: -200°C to +200°C
- Non-conductive
- Immunity to RFI, EMI, NMR and microwave radiation
- Resistance to high temperatures
- High accuracy
- Stable and repeatable measurement
- GaAs-based temperature sensor

Applications

- Animal health environments
- Catheder instrumentation
- Monitoring of animal body temperatures

WEIDMANN
Technologies Deutschland GmbH

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TECHNICAL SPECIFICATION

Name of sensor	TS5, The medical
Temperature range	-200°C to +200°C**
Standard deviation*	+/-0.2 °K
Response time	<= 2,0s
Fiber Ø	200 um
Sensor standard lengths	2m and 10m (Other lengths on request)
Connector type	ST
Signal conditioner	Compatible with all Optocon and Weidmann fiber optic thermometers

DESCRIPTION

The fiber optic temperature probe TS5 combineshigh resistance with a minimal probe diameter – especially suitable for catheter applications within a modern animal health technology setup.

The fiber optic probe TS5 provides measurement data at the speed of light with a response time of <2s and a standard deviation* of +/-0.2°C. The sensor tip with GaAs-Crystal (gallium arsenide) comes with a diameter of 0.55mm being the thinnest fiber optic temperature probe of the Weidmann product line.

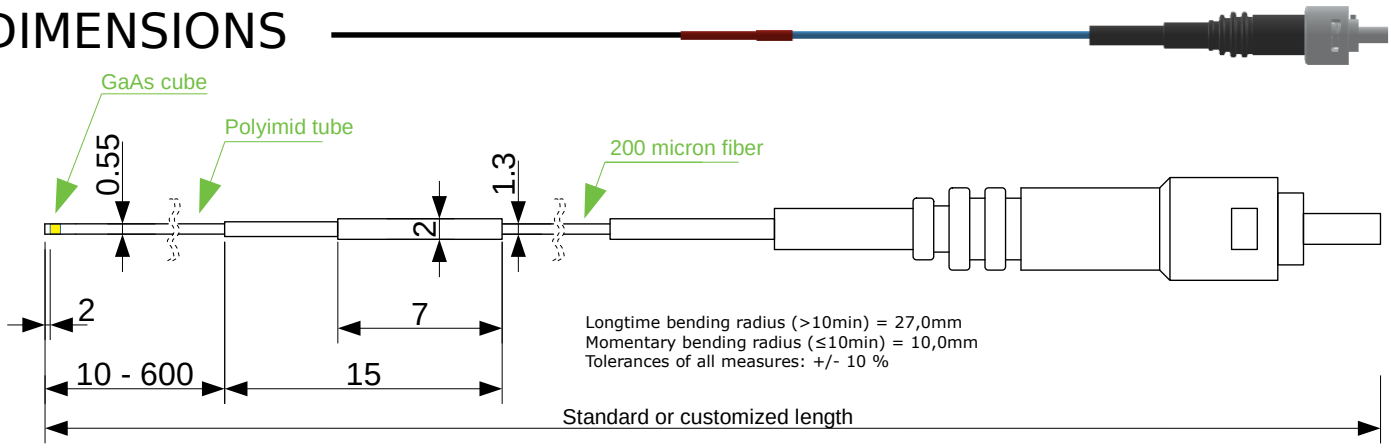
Moreover TS5 offers a variable tip length from 10mm to 550mm. The small size of the TS5 temperature sensor enable for the usage in animal health applications, e.g. body temperature monitoring – the needed requirements on flexibility are completely guaranteed.

Through its mechanical setup it is immune to RFI, EMI, NMR and microwave radiation. All fiber optic temperature sensors can be connected to the fiber optic temperature measurement devices (FOTEMP) and provide accurate, reliable and repeatable data. The sensor cable can be produced in different lengths without influencing the accuracy of the measurement result. Other sensor lengths and connector types are available upon request.

We are always anxious to adjust our offer to your special needs. In case of any further questions about individual measurement problems, lengths of sensors or connector types, please contact us.

IMPORTANT NOTE: This product is not certified to be used in human body!

DIMENSIONS



*1 Statement only possible with analysis unit. See data sheet of the measurement device for information about technical data.
*2 Long-term temperature range -200°C up to +260°C, Short-term temperature range +260°C up to +300°C
*3 Measurement accuracy and standard deviation depent on calibration range and spreading of calibration proints

WEIDMANN
Technologies Deutschland GmbH

Washingtonstr. 16/16A, 01139 Dresden, Germany
PHONE +493518435990, FAX +49351843599111

INFO_WTDE@WEIDMANN-GROUP.COM
HTTPS://WEIDMANN-OPTOCON.COM