



FIBER OPTIC TEMPERATURE SENSOR TS5

KEY FEATURES

- Temperature Range: - 200°C to + 200°C
- Standard deviation*: +/- 0.2°C
- Completely non-conductive
- Complete immunity to RFI, EMI, NMR and microwave radiation
- Corrosion resistant
- High accuracy
- Stable and repeatable measurements
- Small and compact size
- GaAs-based temperature sensor

APPLICATIONS

- Animal health environments
- Catheter instrumentation
- Monitoring of animal body temperature

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 OPTOCON®
OPTICAL SENSORS AND SYSTEMS

FIBER OPTIC TEMPERATURE SENSOR TS5

DESCRIPTION

The fiber optic temperature probe TS5 combines high 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 Optocon product line.

Moreover TS5 offers a variable length from 10mm to 600mm. 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 flex-

ibility are completely guaranteed.

Through its PTFE jacket it is completely 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 up to several meters and kilometers long 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.

TECHNICAL SPECIFICATIONS

Name of sensor	TS5, The medical
Temperature range	- 200°C to + 200°C
Standard deviation*	+/- 0.2°C
Response time	≤ 2,0s
Fiber Ø	200µm

Sensor length	2m standard (Other lengths on customer request)
Connector Type	ST
Signal conditioner	Compatible with all Optocon AG fiber optic thermometers

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

DIMENSIONS

All dimensions in mm.

