



FIBER OPTIC TEMPERATURE MEASUREMENT SYSTEM

FOTEMP MODULAR SYSTEM

Key Features

- Up to 40 channels
- Simple module exchange
- Measuring range - 200 °C to + 300 °C
- Standard deviation 0.2 K
- RS232, USB interface
- Analog Output
- Relay

Applications

- Laboratory
- Scientific usage
- Industrial automation



WEIDMANN

FIBER OPTIC TEMPERATURE
MEASUREMENT SYSTEM

FOTEMP MODULAR SYSTEM

DESCRIPTION

The FOTEMP MODULAR SYSTEM provides highest flexibility for all measurement projects. Specially it is intended for applications, which need fast and parallel measurements.

The FOTEMP MODULAR SYSTEM consists of a 19" housing including power supply. It can be populated with ten measurement modules in maximum, providing up to 40 fiber optical measurement channels. Each module can be easily removed or replaced. For that reason we are offering a variety of fiber optical measurement modules with different features e.g. 1-4 channels per module, additional analog outputs, relays or display.

The FOTEMP MODULAR SYSTEM is especially adapted for industrial needs: among other things this includes low maintenance, robust components and the ability to withstand the toughest conditions. The system adapts perfectly to the most stringent environmental conditions with regard to shock, vibration, moisture and variations in pressure and temperature.

The FOTEMP MODULAR SYSTEM can be connected to a computer and adjusted with our free software FOTEMP ASSISTANT 2. The software allows monitoring, logging, export and import of the measurement data.

DIMENSION

| VERSION | WIDTH | HEIGHT | DEPTH |
|--------------------------|--------|--------|--------|
| Cabinet mounting housing | 488 mm | 133 mm | 247 mm |
| 84TE Desktop housing | 538 mm | 158 mm | 305 mm |
| 42TE Desktop housing | 323 mm | 158 mm | 305 mm |

*1 Mean value. This value depends on the used sensor and its environmental temperature.

*2 Statement only possible with a calibrated analysis unit.

DISCLAIMER – PLEASE READ CAREFULLY

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TECHNICAL SPECIFICATION

| | |
|-----------------------|---|
| Channel | 1, 2, 4 per Module |
| Modules | Up to 10x 7TE or 5x 14TE Modules |
| Measurement Range | -200 °C to 300 °C |
| Measuring Time *1 | < 250 ms per Channel |
| Accuracy *2 | 0.2 K |
| Resolution | 0.1 K |
| Display | 0,96" on 7TE or 1,7" on 14TE OLED |
| Analog | 0 - 10 V or 4 - 20 mA |
| Relay | 1 per Channel |
| Data Logging | — |
| Protocols | ASCII |
| Interfaces | RS232, USB |
| Power Supply | 100 - 240 VAC 50 - 60 Hz |
| Operating Temperature | -20 °C to 60 °C |
| Storage Temperature | -20 °C to 70 °C |
| Dimension | see table |
| Weight | 8,0 kg |
| Mounting Options | — |
| Connector Type | ST |
| Probes | Compatible with all Weidmann fiber optic temperature probes |
| Warranty | 2 years |

Depending on the measurement environment, several sensor designs are available with different types of tubing, sensor tip and also customized sensors can be offered.

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

WEIDMANN

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FIBER OPTIC TEMPERATURE
MEASUREMENT SYSTEM

FOTEMP MODULAR SYSTEM

HOUSING VARIANTS



Name 19" Cabinet mounting housing

84TE or 42TE Desktop housing

MODULE VARIANTS



| Name | MS-14TE | MS-7TE | MS-7TE-S |
|---------|--------------------------------------|--------------------------------------|-----------------------|
| Size | 14TE | 7TE | 7TE |
| Channel | 1 - 4 | 1 - 4 | 1 |
| Display | 1,7" OLED | — | 0,96" OLED |
| Analog | 0 - 10 V or 4 - 20 mA per Channel | 0 - 10 V or 4 - 20 mA per Channel | 0 - 10 V or 4 - 20 mA |
| Relay | 1x Relay per Channel | 1x Relay per Channel | — |