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UNIT: °C   16:20 22.09.2023

CHANNEL 1
OFFSET: 0.4
AVERAGE: 6

33.7

CHANNEL 2
OFFSET: -0.1
AVERAGE: 4

21.1

SN: 00000
FW: 4.001
LIB: 1.301

DC/USB
SENSOR
CHARGE

FOTEMP HANDHELD
www.weidmann-optocon.com

FIBER OPTIC TEMPERATURE
MEASUREMENT SYSTEM

FOTEMP HANDHELD

Key Features

- Portable
- Rechargeable battery operated
- Measuring range - 200 °C to + 300 °C
- Standard deviation 0.2 K
- Large LCD-Display
- USB interface
- Temperatur and spectrum logging

Applications

- EMI, RFI and microwave environments
- High voltage environments
- Process monitoring
- Medical applications (MRT)

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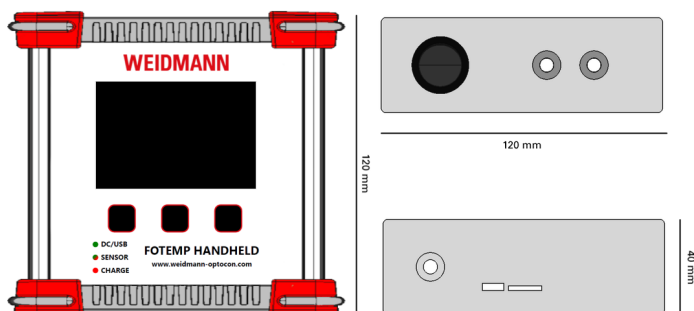FIBER OPTIC TEMPERATURE
MEASUREMENT SYSTEM

FOTEMP HANDHELD

TECHNICAL SPECIFICATION

Channel	1, 2
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	3.5" LCD
Analog	---
Relay	---
Data Logging	Continuous or timed temperature logging, spectrum snapshots
Protocols	ASCII
Interfaces	USB, Reference sensor
Power Supply	9 VDC / 1 A
Operating Temperature	-20 °C to 60 °C
Storage Temperature	-20 °C to 70 °C
Dimension	120 x 112 x 40 mm
Weight	0,6 kg
Mounting Options	---
Connector Type	ST
Probes	Compatible with all Weidmann fiber optic temperature probes
Warranty	2 years

DESCRIPTION

The FOTEMP HANDHELD is a mobile fiber optic thermometer which is a compact, user-friendly, and easy to operate instrument for many fields of application. Battery operated for maximum flexibility, the user can move easily from one measuring point to the next. The battery of the handheld offers electricity for continuous operation for at least 5 hours and can additionally extended by using a power supply or USB-cabel.

The FOTEMP HANDHELD contains the light source, the optical analyzer and the belonging electronic, features a large LCD and comes with an USB communication port for real-time data acquisition. It can be controlled and monitored directly using the front-panel keypad or using the FOTEMP ASSISTANT 2 software. Two installed LED shows the battery charging status and a third LED the operational readiness of the connected sensor.

Temperatures can be measured in environments with high electromagnetic interference, or with the presence of high-power microwave fields. It can also be used in places where measurements with an electrical temperature probe is not possible. With this device you are able to execute a comfortable and safe temperature measurement, even in difficult situations, with an overwhelming aggregated system accuracy of ± 0.2 K.

DIMENSION

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.

*1   Mean value. This value depends on the used sensor and its environmental temperature.
*2   Statement only possible with a calibrated analysis unit.