H201

Handheld Fiber Optic Temperature Monitor

RUGGED | **ROBUST** | **RELIABLE**

H201 Rugged Monitoring
Temperature Monitor

Rugged design, designed for reliability, handheld fiber optic temperature monitor for Factory Testing, Industrial and Laboratory applications.

The Rugged Monitoring H201 is a compact design, designed for reliability to operate in extreme EMI, RFI, Microwave and High Voltage environments. The H201 Fiber optic monitor combines reliability and user friendly interface in the monitor and software. It is a multi-channel fiber optic temperature monitor with precision measurement for Factory Testing, Industrial and Laboratory applications. The H201 has a measuring range from -271°C to +300°C. The system is based on proven GaAs technology and designed for Plug and Play operation. Its immunity to extreme test conditions and harsh environment makes H201 a default choice for temperature testing and measurement.

The H201 is designed to connect to the fiber optic temperature sensors (GaAs technology based) and provide temperature readings on local display. Plug and Play functionality provides the flexibility to interchange sensors without the inconvenience/concerns of calibration. The measured temperature data can also be send to third party datalogger / system through serial communication like RS-485 or analog outputs like 0-10 V / 4-20 mA. The H201 monitor comes with Rugged Connect software which is designed for remote visualization of data, perform analysis and integrate with other Test and Monitoring platforms. Rugged Connect software is capable of collecting data from 6 x H201 or other rugged monitoring systems simultaneously. Industry standard drivers available for a quick and easy connect to most popular laboratories software / computing environments.

We at Rugged Monitoring have a dedicated team of experts available for customizing fiber optic temperature solutions to meet specific customer needs.

» Applications

- Transformer factory: Hottest spot testing
- Medical Equipment testing (MRI, PETSCAN, NMR)
- Commercial Grade Microwave Heating Applications
- Industrial Process Control and monitoring applications
- Chemical and Process Industries
- Food and Beverage Processes
- Wood Drying Industry
- Electric Vehicle and Battery Testing

» Features

- Rugged, Compact Design for quick temperature reading and testing
- 2 to 8 Channels
- Easy to use, USB powered, Plug and Play
- Suitable for HV applications and best in class EMI, ESD Immunity
- Built-in display with Remote Client software for advance visualizations
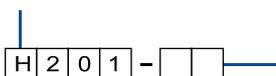
» Benefits

- Sensors do not require any recalibration
- No shift over time, high stability & repeatability
- Handheld system with Robust packaging
- Each Monitor comes with a complete NIST calibration certificate
- Software designed for integration into test platforms
- Robust datalogging & Analytics
- Customizable according to customer specific applications
- Suitable for OEM-type applications

» Technical Specifications

Measurement Range	-271°C to +300°C
Measurement range (*Optional Range extensions*)	Down to 4°K / Up to +300°C
Resolution	0.1 °C
Accuracy	±1.0°C (+/- 0.2°C in relative temperature)
Number of Channels	2 - 8 Channels
Scan rate	200 ms / channel
Logging	Logging on Rugged Connect or uSD (micro SD)
Config port	USB (to use with Rugged connect windows software)
Serial port	RS-485 (RS-232 optional converter) with Modbus
Power	5 V USB powered
Battery	Optional Battery Module available
Memory	MicroSD external memory slot (up to 2 TB)
Analog output module	Fully configurable 0-10 V / 4-20 mA optional module available
Dimensions	12.5 cm x 18 cm x 6.9 cm
Weight	0.64 Kg. (for 8 channel unit)
Operating temperature	-30°C to + 55°C
Storage temperature	-30°C to + 65°C
Humidity	95% Non Condensing

» Ordering Code

H201 = Handheld Instrument, 201 Series

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Number of Channels,
Ex: 02 = 2 Channels (Available 02, 04, 06, 08)

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