

Device Specifications

OEM TEMPERATURE METER

PICO-T

For sensor specifications and response times, please refer to the webpages of the different sensor types.

| Specifications | |
|---|--|
| Weight | 20 g |
| Dimensions (WxDxH) | Ø 17 mm, 59 mm in length |
| Sensor Connector | Screw clamp for fibers with 3mm outer diameter |
| Optical sensor port | 1 for optical fibers with PICO-connector for read out of optical temperature spots |
| Compatible optical temperature sensors | Contactless temperature sensors with optical fiber with PICO-connector |
| Temperature port | 1 for Pt100 temperature sensor (solder points), for calibration of optical temperature sensor |
| Measuring principle | Lifetime detection of REDFLASH luminescence via fiber-optics |
| Excitation wavelength | 620 nm (orange-red) |
| Emission wavelength | 760 nm (NIR) |
| Max. sampling rate | 10 samples per seconds |
| Logging software (optional) | Pyro Workbench or Pyro Developer Tool with USB adapter cable |
| System requirements | USB, Windows 7 / 8 / 10 |
| Power supply | Min. 3.3 V DC, max. 5.0 V DC |
| Power consumption | |
| - in operation | typ. 10 mA |
| - in deep sleep | <100 µA (<10 µA on request) |
| Digital interface | UART (3.0V levels, max. 3.3 V), 19200 baud, 8 data bit, 1 stop bit, no parity, no handshake |

| | |
|--|---|
| Connector plug | Phoenix Contact PTSM0,5/4-P-2,5 |
| Operating / storage temperature | 0-50°C / -20-70°C |
| Max rel. humidity | Non-condensing conditions |
| Temperature sensing principle | 2-wire or 4-wire Pt100 via 24 bit ADC, must be soldered on |
| Pt100 temperature sensor* range resolution accuracy | -30°C- 50°C 0.02°C ±0.5°C |
| Optical temperature sensor | Refer to the separately available specifications for the connected optical temperature sensor |

*Please note, that the optical sensors have a different temperature range

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