

NEOPTIX NOMAD-Touch™

Portable fiber optic thermometer



Single-channel fiber optic temperature measurement made simple

- Efficiently performs quality control on probes during their installation
- Intuitive operation through touch display
- 3.5 inch color display (320 x 240 pixels)
- USB 2.0 interface
- Accuracy of ± 1 °C; Resolution of ± 0.1 °C
- 32 MB logging memory, with storage of all probe signal parameters
- Convenient direct interface to Excel datasheets, with any OptiLink software
- Rechargeable built-in batteries

Product Summary

Description

Single channel fiber optic thermometer with large color LCD display screen, with touch capability. PC communication and battery recharging through USB port. Fast interface to OptiLink' software packages.

Applications

Probe testing during transformer manufacturing and field debugging. Probe intensity parameters are displayed and can be logged in a snap! Mobile temperature monitoring of Neoptix probes (T1S and T2S), in the field and in the laboratory.

It is the ideal instrument to perform difficult temperature measurements in the medical field, and also for microwave, radio frequency, high voltage, aerospace and military applications. It is perfect wherever you need immunity to electromagnetic fields, where conventional metallic sensors cannot be used.



neoptix

A **QUALITROL** Company

**instrumentos
de medida**

Tel. 91 300 01 91 Fax. 91 388 54 33

Email. ldm@idm-instrumentos.es

Web. www.idm-instrumentos.es

NOMAD-Touch portable fiber optic thermometer
TECHNICAL SPECIFICATIONS

User interface	Display	Color touch screen, 320 x 240 pixels (QVGA) Menu selection through touch screen Programmable intensity and backlight
	Firmware	Upgradeable via USB port
Communication	Hardware	USB 2.0 and above
	Software options	OptiLink™ PC software OptiLink-II™ PC software
Power supply	Batteries	Built-in rechargeable lithium-Ion batteries, with 5 hour autonomy Rechargeable through USB port (1 A recommended) User settable power management
	Power supply	1 ampere USB power supply included (85 to 265 VAC) 1 meter USB cable included
Environmental	Operating temperature	-20 °C to +50 °C (-4 °F to +122 °F)
	Storage temperature	-30 °C to +50 °C (-22 °F to +122 °F) Warning: Batteries will deteriorate above 50 °C
	Enclosure	IP54 standard
	Compliance	Electrical : IEC 61000-4-2-ESD, IEC 61000-4-3 Radiated RFI, FFC Part 15 Subpart B Temperature: IEC 60068-2-14, Temperature -20 to +50 °C Mechanical: MIL-810G Method 516.6 Shock, MIL-810G Method 514.6 Vibration
	System accuracy	±1 °C (can be improved through a local single point probe referencing)
	Number of channels	1
	Probe compatibility	All Neoptix GaAs probes (T1S, T2S, etc.)
	Calibration	No system calibration recommended over lifespan to remain within specifications
	Temperature measurement range	-80 °C to 300 °C (-112 °F to 572 °F)
	Resolution	0.1 °C
	Sampling rate	5 Hz
	Light source	MTBF > 300 years of continuous use
	Mechanical	Materials
Connectors		Optical: 1 ST connector Computer and power: 1 USB 2.0 port (type B)
Weight		0.7 kg (2 lbs.)
Dimensions		186 mm (height) x 37 mm (thickness) x 118 mm (width)
Data logging	Memory capacity	32 MB, 6 files each with 65,000 events
	Logging modes	1 per second to 1 per hour, plus snap mode Logged information includes probe performance data
Ordering code	NMT	
Warranty	1 year limited international warranty on a return-to-factory basis. Extended warranty available	