

# 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  $\pm 1$  °C; Resolution of  $\pm 0.1$  °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

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**NOMAD-Touch portable fiber optic thermometer**
**TECHNICAL SPECIFICATIONS**

<b>User interface</b>	Display	Color touch screen, 320 x 240 pixels (QVGA) Menu selection through touch screen Programmable intensity and backlight	
	Firmware	Upgradeable via USB port	
<b>Communication</b>	Hardware	USB 2.0 and above	
	Software options	OptiLink™ PC software OptiLink-II™ PC software	
<b>Power supply</b>	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	
<b>Environmental</b>	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, FCC 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	
	<b>Mechanical</b>	Materials	Anodized aluminum extrusion case and robust die cast top and bottom end caps painted with textured black powdered paint (RAL 9005)
		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)	
<b>Data logging</b>	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	
<b>Ordering code</b>	NMT		
<b>Warranty</b>	1 year limited international warranty on a return-to-factory basis. Extended warranty available		