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.
## TECHNICAL SPECIFICATIONS

### 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**: 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)

### 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**