

**A multichannel fiber optic
signal conditioner
for temperature
measurement in industrial
and laboratory applications.**

Key Features

1, 2 or 4 channels

Large display

No gage factor or calibration

Range down to 4.2 K available

Voltage or current output

Accuracy of $\pm 0.8^{\circ}\text{C}$

Reflex™ Signal Conditioner



The Neoptix™ Reflex™ is a multi-purpose fiber optic temperature thermometer that can have up to 4 channels. It allows the user to take multiple temperature measurements for accurate information on industrial processes. This fiber optic temperature measurement system is designed to meet laboratory requirements but is also well adapted to industrial environments.

The system is based on the proven GaAs technology. An original algorithm is used to analyze the signal and provide repeatable and reproducible measurements.

The Reflex is easy to interface to an existing system via its analog output or its RS-232 communication interface. When used with the optional Neoptix NeoLink™ software, the Neoptix Reflex becomes an indispensable laboratory instrument.

The system's immunity to electromagnetic interference and harsh environments makes it very advantageous compared to traditional sensors. Fiber optics being made of non-conductive material, they are inherently immune to EMI and RFI interference.

The Neoptix Reflex is well adapted to both laboratory and industrial environments. Its accuracy and high degree of sensitivity to temperature changes, as well as the selection of probe models available, make it a natural choice for a wide variety of applications. Moreover, the Neoptix sensors are interchangeable and no calibration or inconvenient gage factors are required when changing sensors.

The rugged, splash-proof enclosure is designed to withstand the most punishing industrial environments. For industrial needs, Reflex units can be installed together on a special 19 in. rack-mounted plate to monitor up to 16 probes simultaneously. Standard system temperature range is -80 to 300°C (-112 to 572°F). Cryogenic range available, down to 42 Kelvin.

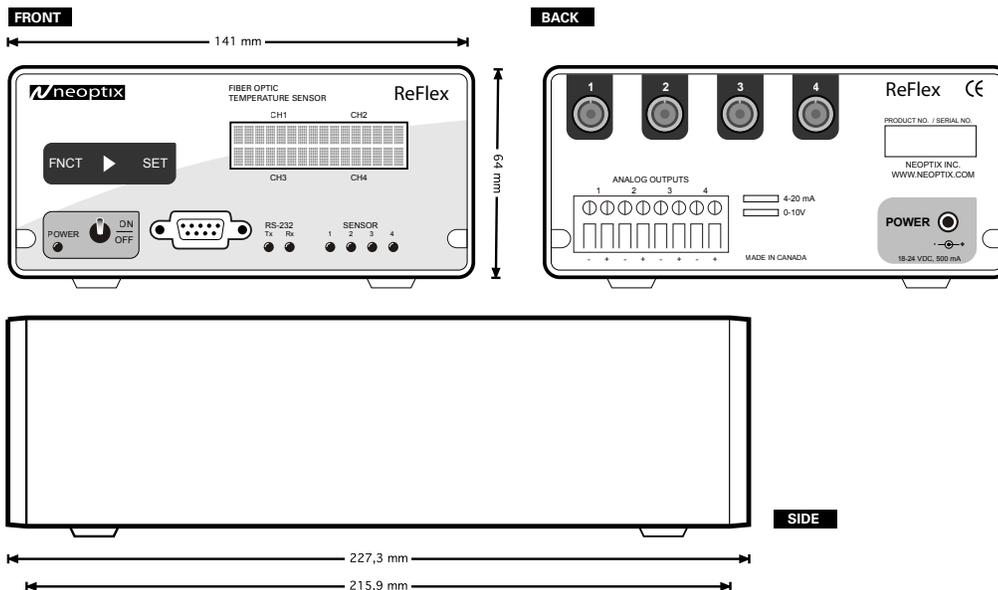
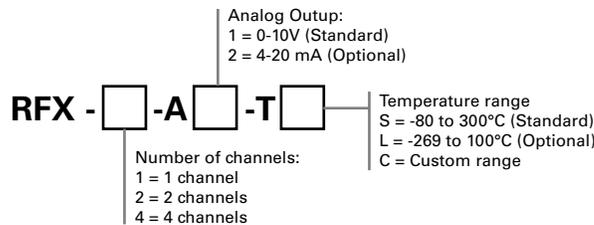
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Technical Specifications



Model:	Reflex™
Number of channels:	1,2 or 4
Resolution:	0.1°C (0.2°F)
Precision:	±0.8°C or 1 % FS
Accuracy (calibrated):	±0.3°C on all probes at ±20° of temperature ref. point
Response time:	10 Hz on single-channel version, 250 milliseconds switching with multiple channels
Operating temperature:	0 to 50°C (32 to 122°F)
Storage temperature:	-20 to 60°C (-4 to 140°F)
Display:	2 lines X 16 characters Vacuum Fluorescent Display
Communication port:	RS-232 ; USB or Ethernet to serial optional
Operating Mode:	Front panel, Neoptix™ NeoLink™ PC Software or RS-232 ASCII commands
Analog outputs:	Standard: 0-10 Volts, Optional: 4-20 mA
Temperature range:	-80 to 300°C (-112 to 572°F) Cryogenic range available (down to 4.2 Kelvin)
Probe compatibility:	All Neoptix temperature probes
Power:	18 to 24 VDC, 8 W
Dimensions:	Width: 141.4 mm (5.57 in.); Height: 64.0 mm (2.52 in.) Length: 227.3 mm (8.95 in.)
Weight:	1.2 Kg

Ordering Codes:



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