

Specification	1769-IR6
Accuracy Drift at 0 to 60° C (+32 to +140°F)	$\pm 0.026^{\circ}\text{C}/^{\circ}\text{C}$ ($0.026^{\circ}\text{F}/^{\circ}\text{F}$) for Pt 385 $\pm 0.023^{\circ}\text{C}/^{\circ}\text{C}$ ($0.023^{\circ}\text{F}/^{\circ}\text{F}$) for Pt 3916 $\pm 0.012^{\circ}\text{C}/^{\circ}\text{C}$ ($0.012^{\circ}\text{F}/^{\circ}\text{F}$) for Ni $\pm 0.015^{\circ}\text{C}/^{\circ}\text{C}$ ($0.015^{\circ}\text{F}/^{\circ}\text{F}$) for NiFe $\pm 0.032^{\circ}\text{C}/^{\circ}\text{C}$ ($0.032^{\circ}\text{F}/^{\circ}\text{F}$) for Cu $\pm 0.007\ \Omega/^{\circ}\text{C}$ ($\pm 0.013\ \Omega/^{\circ}\text{F}$) for 150 Ω $\pm 0.023\ \Omega/^{\circ}\text{C}$ ($\pm 0.041\ \Omega/^{\circ}\text{F}$) for 500 Ω $\pm 0.043\ \Omega/^{\circ}\text{C}$ ($\pm 0.077\ \Omega/^{\circ}\text{F}$) for 1000 Ω $\pm 0.072\ \Omega/^{\circ}\text{C}$ ($\pm 0.130\ \Omega/^{\circ}\text{F}$) for 3000 Ω
Repeatability ⁽¹⁾	$\pm 0.01^{\circ}\text{C}$ (0.018°F) for Ni and NiFe $\pm 0.2^{\circ}\text{C}$ (0.36°F) for other RTD inputs $\pm 0.04\ \Omega$ for 150 Ω resistances $\pm 0.2\ \Omega$ for other resistances
Open-Circuit Detection Time ⁽²⁾	6 ms to 303s
Channel Update Time	Input filter and configuration dependent. Refer to the 1769-IR6 User Manual, publication number 1769-UM005A-EN-P.
Input Channel Configuration	via configuration software screen or the user program (by writing a unique bit pattern into the module's configuration file). Refer to your controller's user manual to determine if user program configuration is supported.
Calibration	The module performs autocalibration on channel enable and on a configuration change between channels. You can also program the module to calibrate every five minutes.
Module OK LED	On: module has power, has passed internal diagnostics, and is communicating over the bus. Off: Any of the above is not true.
Channel Diagnostics	Over- or under-range or broken input by bit reporting
Maximum Overload at Input Terminals	Voltage: $\pm 30\text{V}$ dc continuous, $\pm 20\text{ mA}$ Current: $\pm 20\text{ mA}$ continuous, $\pm 30\text{V}$ dc
Cable Impedance Max.	25 Ω
Input Impedance	>10 M Ω
Power Supply Distance Rating	8 (The module may not be located more than 8 modules away from the system power supply.)
Channel to Bus Isolation	720V dc for 1 minute, optical and magnetic (qualification) 30V ac/30V dc working voltage (IEC Class 2 reinforced insulation)
Channel to Channel Isolation	$\pm 10\text{V}$ dc
Vendor I.D. Code	1
Product Type Code	10
Product Code	37

(1) Repeatability is the ability of the module to register the same reading in successive measurements for the same input signal.

(2) Open-circuit detection time is equal to channel update time.