

Input Specifications

Specification	1769-IR6
Input Types	100 Ω Platinum 385 500 Ω Platinum 3916 0 to 150 Ω 200 Ω Platinum 385 1000 Ω Platinum 3916 0 to 500 Ω 500 Ω Platinum 385 10 Ω Copper 426 0 to 1000 Ω 1000 Ω Platinum 385 120 Ω Nickel 672 0 to 3000 Ω 100 Ω Platinum 3916 120 Ω Nickel 618 200 Ω Platinum 3916 604 Ω Nickel-Iron 518
Bus Current Draw (max.)	100 mA at 5V dc 45 mA at 24V dc
Heat Dissipation	1.5 Total Watts (The Watts per point, plus the minimum Watts, with all points enabled.)
Converter Type	Sigma-Delta
Input Filtering	Low pass digital filter with programmable notch filter.
Resolution	Input filter and configuration dependent. Refer to the 1769-IR6 User Manual, publication number 1769-UM005A-EN-P for more information.
Common Mode Voltage Range	± 10 V dc maximum per channel
Common Mode Rejection	110 dB minimum at 50 Hz with the 10 or 50 Hz filter selected 110 dB minimum at 60 Hz with the 10 or 60 Hz filter selected
Normal Mode Rejection Ratio	70 dB minimum at 50 Hz with the 10 or 50 Hz filter selected 70 dB minimum at 60 Hz with the 10 or 60 Hz filter selected
Non-linearity (in percent full-scale)	$\pm 0.05\%$
Accuracy ⁽¹⁾ at 25° C (°F)	$\pm 0.5^\circ\text{C}$ (0.9°F) for Pt 385 $\pm 0.15 \Omega$ for 150 Ω range $\pm 0.4^\circ\text{C}$ (0.72°F) for Pt 3916 $\pm 0.5 \Omega$ for 500 Ω range $\pm 0.2^\circ\text{C}$ (0.36°F) for Ni $\pm 1.0 \Omega$ for 1000 Ω range $\pm 0.3^\circ\text{C}$ (0.54°F) for NiFe $\pm 1.5 \Omega$ for 3000 Ω range $\pm 0.6^\circ\text{C}$ (1.08°F) for Cu
Accuracy ⁽¹⁾ at 0 to 60° C (+32 to +140°F)	$\pm 0.9^\circ\text{C}$ (1.62°F) for Pt 385 $\pm 0.25 \Omega$ for 150 Ω range $\pm 0.8^\circ\text{C}$ (1.44°F) for Pt 3916 $\pm 0.8 \Omega$ for 500 Ω range $\pm 0.4^\circ\text{C}$ (0.72°F) for Ni $\pm 1.5 \Omega$ for 1000 Ω range $\pm 0.5^\circ\text{C}$ (0.9°F) for NiFe $\pm 2.5 \Omega$ for 3000 Ω range $\pm 1.1^\circ\text{C}$ (1.98°F) for Cu

(1) Accuracy is dependent upon the Analog/Digital converter output rate selection, excitation current selection, data format, and input noise.