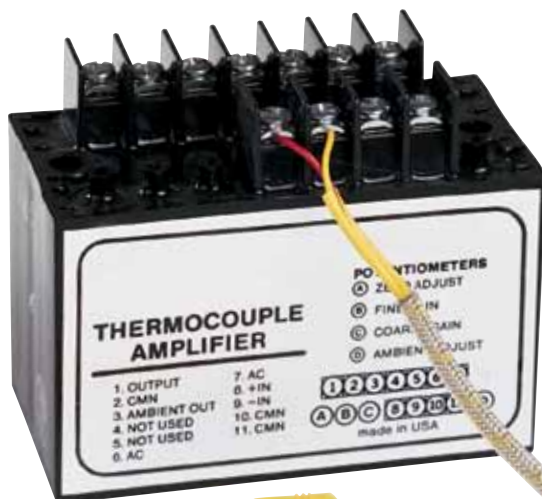


Thermocouple Amplifier

OMNI-AMP IV



OMNI-AMP IV-13-115 shown
with GKQSS-316G-12
thermocouple probe

Specifications

Range Span: 40 to 1500
Nonlinearity: $\pm 0.005\%$
Resolution: Infinite
Zero Stability: $2 \mu\text{V}/^\circ\text{C}$ ($1 \mu\text{V}/^\circ\text{F}$)
Long Term Zero Stability: $\pm 1 \mu\text{V}/\text{Month}$
Span Stability: $\pm 0.01\%/^\circ\text{C}$ ($\pm 0.006\%/^\circ\text{F}$)
Long Term Span Stability: $\pm 0.05\%$
Cold Junction Compensation:
 $\pm 0.045^\circ\text{C}/^\circ\text{C}$

100% Encapsulated
 $2 \mu\text{V}/^\circ\text{C}$ Zero Stability
 $0.025^\circ\text{F}/^\circ\text{F}$ Reference
Junction Stability
Up or Downscale
Thermocouple Burn-out
115 Vac or 230 Vac Power
Easy Mounting
 $\pm 10 \text{ Vdc}$ Output
Input Protection to
115 Vac or Vdc
Scale of $10 \text{ mV}/^\circ\text{F}$
Over 120 dB CMRR
at 60 Hz

The TRODEKS® OMNI-AMP™ IV thermocouple amplifier is a high performance rugged epoxy encapsulated thermocouple amplifier with built-in power supply. Models are offered for J, K, T, E, R, S and B thermocouples. Only the highest quality industrial components are used for reliable and long operation. Connections are made with an ordinary screwdriver to rugged terminal strips. The amplifier can be mounted using the bolts supplied with the unit.

Output: $\pm 10 \text{ V}$ into $10 \text{ k}\Omega$
minimum

Operating Temperature:
0 to 55°C (32 to 130°F)

Storage Temperature:
20 to 80°C (-4 to 175°F)

Power: 115 Vac @ 3 VA
maximum
(230 Vac optional)

Input Protection: Up to
115 Vac
or Vdc common mode or
differential

Output Protection:
Continuous short circuit
proof

Common Mode Range:
 $+10$ to -10 Vdc or 20 Volts
peak-to-peak ac

Scale Factor:
J, K, T, E: $10 \text{ mV}/^\circ\text{F}$
R, S, B: $1 \text{ mV}/^\circ\text{F}$

Size: 73 H x 95 W x 51 mm D
(2.87 x 3.75 x 2.0")

Weight: 455 g (18 oz)

Input Impedance (Diff): $2 \text{ M}\Omega$
Frequency Response: 3 dB down
at 1.5 Hz 40 dB/decade roll-off
Common Mode Rejection Ratio:
120 dB min @ 60 Hz
Normal Mode
Rejection Ratio: 80 dB min @ 60 Hz
Noise (RTI): 0 to 1.5 Hz: $1.4 \mu\text{VRMS}$

To Order

Model No.	Description
OMNI-AMP IV-13-115	Upscale burnout J, K, T, E; 115 Vac
OMNI-AMP IV-13-230	Upscale burnout J, K, T, E; 230 Vac
OMNI-AMP IV-23-115	Down scale burnout J, K, T, E; 115 Vac
OMNI-AMP IV-23-230	Down scale burnout J, K, T, E; 230 Vac
OMNI-AMP IV-14-115	Upscale burnout R, S, B; 115 Vac
OMNI-AMP IV-14-230	Upscale burnout R, S, B; 230 Vac
OMNI-AMP IV-24-115	Down scale burnout R, S, B; 115 Vac
OMNI-AMP IV-24-230	Down scale burnout R, S, B; 230 Vac

Accessory

Model No.	Description
DIN400	DIN rail mounting kit