

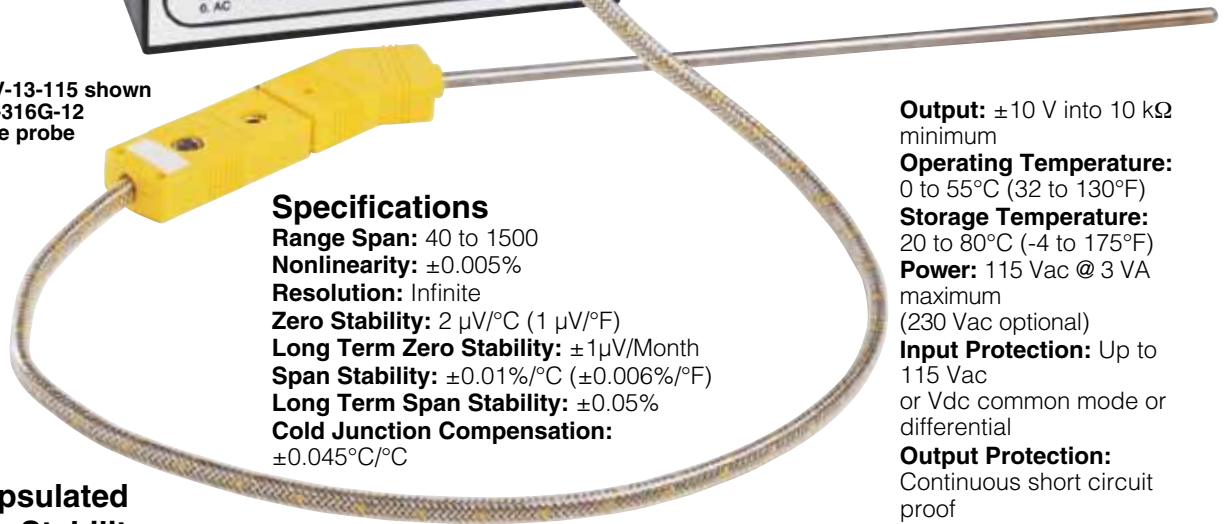
Thermocouple Amplifier

OMNI-AMP IV



OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

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: $\pm 0.045^\circ\text{C}/^\circ\text{C}$

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

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

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 ($2.87 \times 3.75 \times 2.0$)
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: $1.4 \mu\text{VRMS}$

The OMEGA[®] 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.

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

Comes complete with operator's manual.

Ordering Examples: OMNI-AMP IV-24-230, 230 Vac, R, S, B thermocouple amplifier with down scale burnout, 230 Vac and DIN400, DIN rail mounting adaptor.

OMNI-AMP IV-13-115, 115 Vac, J, K, T, E thermocouple amplifier with upscale burnout.

OCW-3, OMEGACARESM extends standard 1-year warranty to a total of 4 years.