

OMNI-AMP™ IV Thermocouple Amplifier



- ✓ 100% Encapsulated
- ✓ 2 μ V/°C Zero Stability
- ✓ 0.025°F/°F Reference Junction Stability
- ✓ Up or Downscale TC Burn-out
- ✓ 115 Vac or 230 Vac Power
- ✓ Easy Mounting
- ✓ \pm 10 Vdc Output
- ✓ Input Protection to 115 Vac or Vdc
- ✓ Scale of 10 mV/°F
- ✓ Over 120 dB CMRR at 60 Hz

OMNI-AMP-IV
Starts at
\$233

Shown with GKSS-316G-12
Thermocouple probe, \$28.
See page A-53.



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.

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 mV/°F

R, S, B: 1 mV/°F

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

Weight: 455 g (18 oz)

MOST POPULAR MODELS HIGHLIGHTED!

Specifications

Range Span: 40 to 1500

Nonlinearity: \pm 0.005%

Resolution: Infinite

Zero Stability: 2 μ V/°C (1 μ V/°F)

Long Term Zero Stability: \pm 1 μ V/Month

Span Stability: \pm 0.01%/°C
(\pm 0.006%/°F)

Long Term Span Stability: \pm 0.05%

Cold Junction Compensation:
 \pm 0.045°C/°C

Input Impedance (Diff): 2 M Ω

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 μ V RMS

Output: \pm 10 V into 10 k Ω minimum

To Order (Specify Model Number)

Model No.	Price	Description
OMNI-AMP IV-13-115	\$233	Upscale burnout J, K, T, E; 115 Vac
OMNI-AMP IV-13-230	244	Upscale burnout J, K, T, E; 230 Vac
OMNI-AMP IV-23-115	270	Down scale burnout J, K, T, E; 115 Vac
OMNI-AMP IV-23-230	281	Down scale burnout J, K, T, E; 230 Vac
OMNI-AMP IV-14-115	270	Upscale burnout R, S, B; 115 Vac
OMNI-AMP IV-14-230	281	Upscale burnout R, S, B; 230 Vac
OMNI-AMP IV-24-115	308	Down scale burnout R, S, B; 115 Vac
OMNI-AMP IV-24-230	319	Down scale burnout R, S, B; 230 Vac
Accessories		
DIN400	\$25	DIN rail mounting adaptor
OP-SET1/2	35	Reference Book: Temperature Measurement in Engineering Vol 1 and 2

Comes complete with operator's manual.

Ordering Example: OMNI-AMP IV-24-230, 230 Vac, R, S, B thermocouple amplifier with down scale burnout, 230 Vac and DIN400, DIN rail mounting adaptor, \$319 + 25 = **\$344**.

OMNI-AMP IV-13-115, 115 Vac, J, K, T, E thermocouple amplifier with upscale burnout, **\$233**.

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