SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-8387616 E-MAţLpszse20負16 LAMR Amplifiers Unregulated Excitation

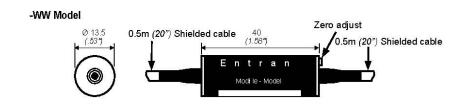


The compact IAMR In-line

Amplifiers provide a fixed 10, 20, 50, 100, 200 or 500 Gain with 700kHz/G-3dB bandwidth. Each Unit features 0.1% non-linearity error and reverse polarity and short circuit protection. Depending on options, sensor supply voltage can be 5 VDC, 10 VDC or 15 VDC. Common mode rejection is 85dB. Mating connectors are available for connector options and factory-wiring to the sensor is available upon request.

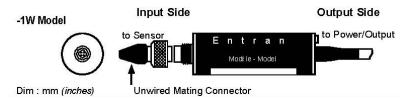


dimensions

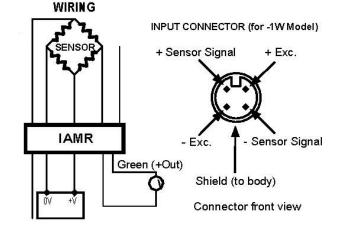


FEATURES

- Compact size
- Rugged construction
- Attractive packaging
- Short-circuit protection
- Optional wiring configuration
- Wide operating temperature



wiring



APPLICATIONS

- Instrumentation Labs
- **Test Stands**
- **Process Monitoring**
- Instrumentation Measurements

IAMR Amplifier Rev 1 www.meas-spec.com 10/01/2008



Supply for Sensors, General Characteristics, Options & Accessories

SENSOR SUPPLY VOLTAGE: 05=5V for Power type 12U 05=5V or 10=10V for Power type 28U

SENSOR SUPPLY CURRENT max.: 15mA

COMMON MODE REJECTION: 85dB @ G = 10 115dB @ G = 500

INPUT PROTECTION: Reverse Polarity Protected **OUTPUT PROTECTION:** Short Circuit Protected **CE CONFORMANCE:**

EN61010-1, EN 50081-1, EN 50082-1 **OPERATING TEMPERATURE:** -20°C to 70°C (-4°F to 158°F) STORAGE TEMPERATURE: -55°C to 125°C (-67°F to 257°F)

WIRING: WW = Shielded cable input and output

= Male connector on Input Side, type EM4 with unwired mate

(will not mate with Option C connector), shielded cable on

Output Side

SPECIAL OUTPUT CABLE LENGTH: L00F = Replace "00" with total length in feet. L00M = Replace "00" with total length in meters.

CONNECTOR WIRED TO OUTPUT CABLE: = Microtech type male or equivalent

> on Output Side only (w/o mate), style EC-CM4 RS = RJ Telephone type male (w/o mate)

WIRE AMPLIFIER INPUT TO A SENSOR: = Wire to sensor

Amplifier Performance

GAIN (G) ±5%: 10, 20, 50, 100, 200 or 500

BANDWIDTH (-3dB) nom.: 700KHz/G (70KHz @ G = 10, 1.4KHz @ G = 500)

1V/μs **SLEW RATE:**

POWER REQUIRED: $12\dot{U} = 10V$ to 14V Unregulated 28U = 24V to 32V Unregulated **OUTPUT SIGNAL max.:** For Power Type 12U: ±2V (Common Mode Voltage +2.5V) For

Power Type 28U: ±4V (Common Mode Voltage +5V)

OUTPUT CURRENT max.: INPUT IMPEDANCE nom.: $10M\Omega$ **OUTPUT IMPEDANCE nom.:** 1ΚΩ

BASE LINE (NULL) ADJUSTABILITY: For Power Type 28U: ±1.4V For Power Type 12U: ±0.7V

NON-LINEARITY: 0.1% max.

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Model number construction

Series	Power Required	Sensor Supply Voltage	Gain	(IN/OUT) Cable or Connector	Options
IAMR	12U	05	10	WW	C or RS
			20	1W	L00F or L00M
	28U	05 or 10	50		WI
			100		
			200		
			500		

Example: IAMR-12U/05/10-WW - Model IAMR, 10V to HV Power required, 5V Sensor Supply, 10 Gain, Cable Input and Output

IAMR Amplifier Rev 1 www.meas-spec.com 10/01/2008

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