

IAM Amplifiers Small In-line Modules

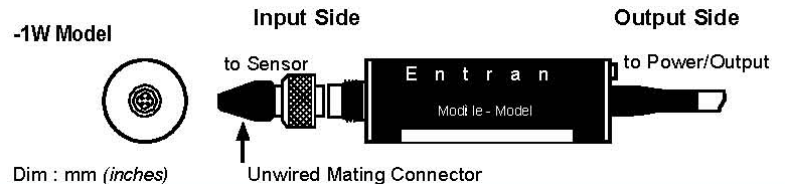
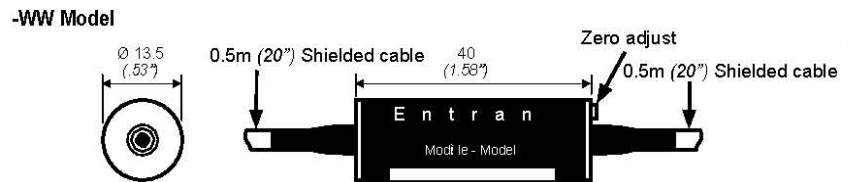
Fixed Excitation
 Miniature, In-line, Fixed
 1 to 1000 Gain Options
 Reverse Polarity Protection



The compact IAM In-line

Amplifiers provide a fixed 1, 10, 20, 50, 100, 200, 500 or 1000 100kHz – 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 100dB. Mating connectors are available for connector options and factory-wiring to the sensor is available upon request.

dimensions



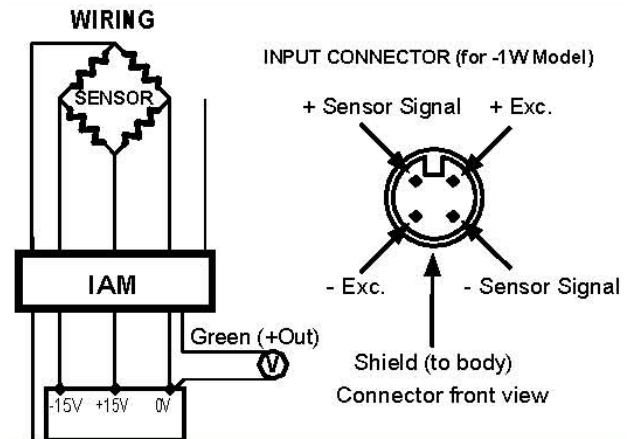
FEATURES

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

APPLICATIONS

- Instrumentation Labs
- Test Stands
- Process Monitoring
- Test & Measurement
- Instrumentation

wiring



IAM Amplifiers Small In-line Modules

Supply for Sensors, General Characteristics, Options & Accessories

SENSOR SUPPLY VOLTAGE:	05 = 5V 10 = 10V 15 = 15V
SENSOR SUPPLY CURRENT max.:	15mA
COMMON MODE REJECTION:	100dB typ. @ G= 100 to 1000
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 1W = Male connector on Input Side, type EM4 with unwired mate (will <u>not</u> 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:	C = 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:	WI = Wire to sensor

Amplifier Performance

GAIN (G) ±5%:	1, 10, 20, 50, 100, 200, 500 or 1000
BANDWIDTH (-3dB) nom.:	100KHz
SLEW RATE:	4V/μs
POWER REQUIRED:	15 = ±15VDC
OUTPUT SIGNAL:	±12V max.
OUTPUT CURRENT max.:	5mA
INPUT IMPEDANCE nom.:	1GΩ
OUTPUT IMPEDANCE nom.:	1Ω
BASE LINE (NULL) ADJUSTABILITY:	±5V
NON-LINEARITY:	0.1% max.

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Model number construction

Series	Power Required	Sensor Supply Voltage	Gain	In/Out
IAM	15	05	1 100	Cable or Connector
		10	10 200	WW
		15	20 500	1W
			50 1000	C or RS L00F or L00M WI

Example: IAM-15/05/100-WW

Model IAM, ±15VDC power, 5V Sensor Supply, 100 Gain, Cable Input and Output