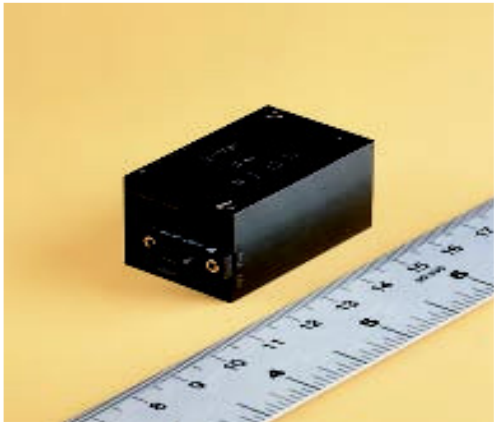
IEM Amplifiers

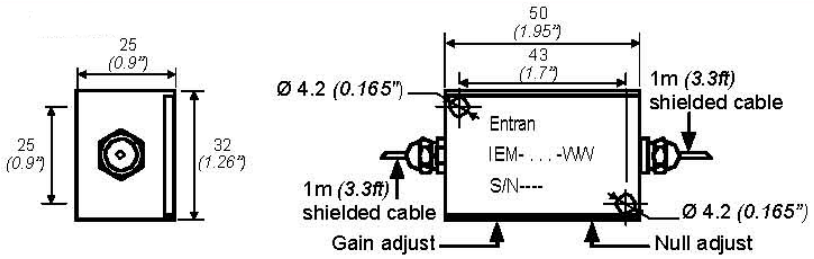
High Performance Amplifier
50kMz Bandwidth
10 to 1000 Adjustable Gain Range
Reverse Polarity Protection



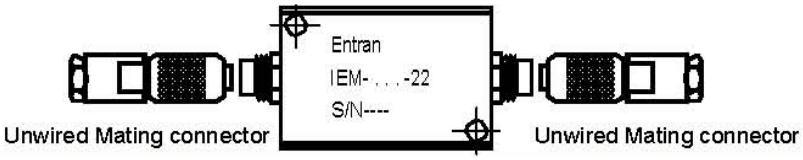
The compact IEM Amplifiers provide adjustable 10 to 1000 gain over a 50kHz bandwidth. Each Unit features 0.1% non-linearity error and reverse polarity and surge protection. Depending on options, sensor supply voltage can be 5 VDC, 10 VDC or 15 VDC. Common mode rejection is 120dB. Mating connectors are available for connector options and factory-wiring to the sensor is available upon request.

dimensions

-WW Model



-22 Model

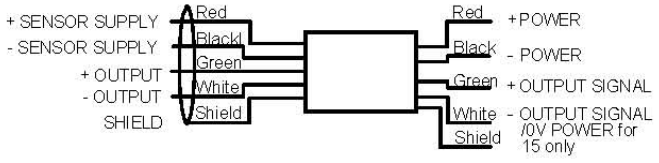


FEATURES

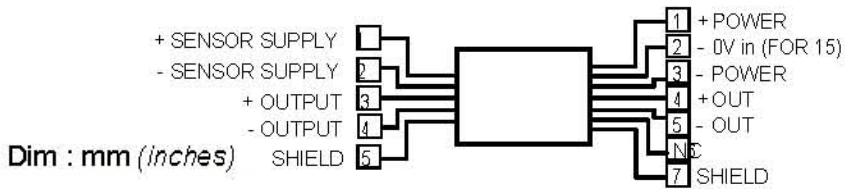
- Compact size
- Rugged construction
- Attractive packaging
- Surge protection
- Optional wiring configuration
- Wide operating temperature

wiring

-WW Model



-22 Model



Dim : mm *(inches)*

APPLICATIONS

- Instrumentation Labs
- Test Stands
- Process Monitoring
- In-line Amplifiers

32 Journey Ste. 150 Aliso Viejo, CA 92656 949-716-5377 enduser@mes-spec.com

IEM Amplifiers

Supply for Sensors, General Characteristics, Options & Accessories

SENSOR SUPPLY VOLTAGE:	**05** = 5V for Power type 12U **05** = 5V or **10** = 10V or **15** =15V for Power type 15
SENSOR SUPPLY CURRENT max.:	20mA
COMMON MODE REJECTION:	120dB
CE CONFORMANCE:	EN61010-1, EN 50081-1, EN 50082-1
OPERATING TEMPERATURE:	-20℃ to 70℃ (-4℉ to 158℉)
STORAGE TEMPERATURE:	-55℃ to 125℃ (-67℉ to 257℉)
WIRING:	WW = Shielded cable input and output 22 = Binder cylindrical connector (input/output) with unwired mate
SPECIAL CABLE LENGTH ON TYPE WW ONLY:	L00F = Replace "00" with total length in feet. L00M = Replace "00" with total length in meters.
CONNECTOR WIRED TO OUTPUT CABLE TYPE WW:	C = Microtech type male or equivalent (w/o mate) RS = RJ Telephone type male (w/o mate)
WIRE AMPLIFIER INPUT TO A SENSOR:	WI = Wire to sensor
MATING CONNECTORS FOR CONNECTOR OPTIONS:	See Cable and Connector Bulletins

Amplifier Performance

GAIN (G):	10 to 1000 adjustable	
BANDWIDTH (-3dB) nom.:	50KHz	
POWER REQUIRED:	**15** = ±15VDC	**12U** = 8 to 28VDC Unreg.
INPUT CURRENT WITHOUT SENSOR:	10mA for Power type **15**	40mA for Power type **12U**
OUTPUT SIGNAL max.:	±13V for Power type **15**	±5V for Power type **12U**
OUTPUT CURRENT max.:	5mA	
BASE LINE (NULL) ADJUSTABILITY:	±5V for Power type **15**	±2.5V for Power type **12U**
NON-LINEARITY max.:	0.1%	
INPUT IMPEDANCE nom.:	10MΩ	
OUTPUT IMPEDANCE nom.:	100Ω	
INPUT PROTECTION:	Reverse Polarity and Surge Protected (600V, 10µs & 60V, 0.1s)	

Model number construction

Series	Power Required	Sensor Supply Voltage	Gain	(IN/OUT)	
IEM	**15**	05 10 15	1000R	Cable or Connector	C or RS
	12 U	05		WW	L00F or L00M
		05 10 15		22	WI

Example: IEM-15/05/1000R-WW

Model IEM, ±15VDC power, 5V Sensor Supply, 1000 Gain, Cable Input and Output

32 Journey Ste. 150 Aliso Viejo, CA 92656 949-716-5377 enduser@mes-spec.com