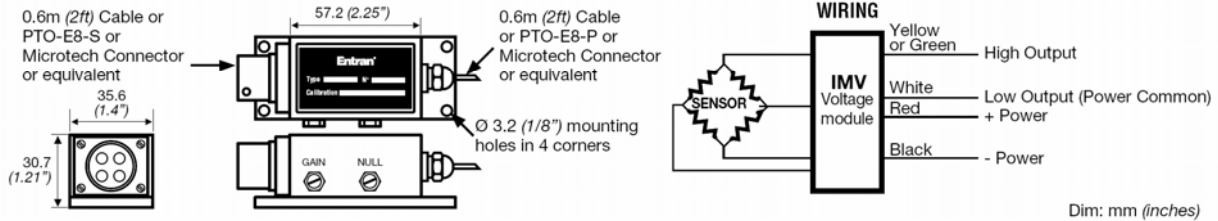




IM Amplifiers

General Purpose - Voltage or Current Output Models

IMV Amplifier - Voltage Output



Amplifier Performance

GAIN (G) ±5%:	Externally adjustable ±10% min.: 50A=50 Gain 100A=100 Gain Fixed Gain : 1 to 1000 available Matched to a specific sensor : 5VM=Gain set to yield 0±5V output (adjustable ±10% min.) (10mV min. input required) 10VM=Gain set to yield 0±10V output (20mV min. input required)
BANDWIDTH (-3dB) nom.:	90KHz typical at G = 10 25KHz typical at G = 1000
SLEW RATE:	3V/µs min. for G = 1 to 1000
POWER REQUIRED:	15 = ±15VDC
OUTPUT SIGNAL:	12V with 50Ω min. load
OUTPUT CURRENT max.:	50mA with up to 50Ω load, 25mA with 500Ω load
INPUT IMPEDANCE nom.:	1GΩ
OUTPUT IMPEDANCE nom.:	1Ω typ. with Sensor Supply = 15V, otherwise 1KΩ
BASE LINE (NULL) ADJUSTABILITY:	±500mV
NON-LINEARITY:	±0.05%

Supply For Sensors, General Characteristics, Options & Accessories

SENSOR SUPPLY VOLTAGE:	05 = 5V 10 = 10V 15 = 15V
SENSOR SUPPLY CURRENT max.:	Same as nominal power supplied up to 1.5A
COMMON MODE REJECTION:	75 to 110dB typ. with G = 1 to 1000
INPUT PROTECTION:	Reverse Polarity and Overvoltage Protected
OUTPUT PROTECTION:	Short Circuit Protected
OPERATING TEMPERATURE:	-29°C to 82°C (-20°F to 180°F)
STORAGE TEMPERATURE:	-40°C to 120°C (-40°F to 250°F)
WIRING:	W = Shielded cable 1 = Microtech type or equivalent Easy Connector (female in, male out) with unwired mate 4 = PTO-E8-S female connector if input, without mate PTO-E8-P male connector if output, without mate
SPECIAL OUTPUT CABLE LENGTH TYPE W:	L00F = Replace "00" with total length in feet. L00M = Replace "00" with total length in meters.
CONNECTOR WIRED TO OUTPUT CABLE TYPE W:	C = Microtech type male or equivalent (w/o mate) RS = RJ Telephone type male (w/o mate) WI = Wire to sensor IO = >100MΩ at 500V
WIRE AMPLIFIER INPUT TO A SENSOR:	
INPUT TO OUTPUT ISOLATION:	
MATING CONNECTORS FOR CONNECTOR OPTIONS:	Click here to see Cable and Connector Bulletins

Model Number construction

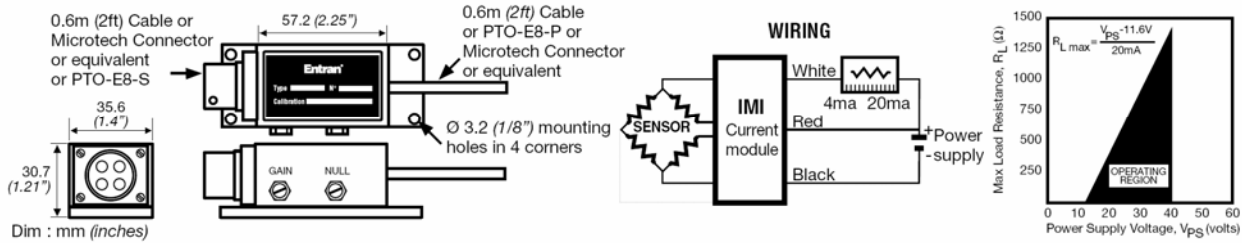
IMV Series	-	15 Power Required	/10 Sensor Supply Voltage	/50A Gain	-	W (IN) Cable	W (OUT) Connector	-	/WI/L3M/C Options
		15	05 10 15	50A 100A 1 to 1000 5VM 10VM		WW W1 1W 11	44 4W W4		C or RS IO L00F or L00M WI

"Off-the-Shelf" Stocking Program



IMI specifications continued ...

IMI Amplifier - Current Output



Amplifier Performance

GAIN (G) ±5%:	Externally adjustable ±10% min.: 0.1A=0.1mA/mV 0.5A=0.5mA/mV Fixed Gain : 0.016 to 1.6mA/mV available Matched to a specific sensor : 420M=Gain set to yield 4 to 20mA output (adjustable ±10% min.) (12 to 800mV input allowable)
POWER REQUIRED:	10 to 40V
OUTPUT SIGNAL:	4 to 20 mA
OUTPUT CURRENT max.:	28mA
INPUT IMPEDANCE nom.:	10GΩ (Common Mode)
BASE LINE (NULL) ADJUSTABILITY:	±10%
NON-LINEARITY:	0.01%

Supply For Sensors, General Characteristics, Options & Accessories

SENSOR SUPPLY VOLTAGE:	10 = 10V
SENSOR SUPPLY CURRENT max.:	1.5A
SENSOR OUTPUT COMMON MODE:	Must be 5V ±1V
COMMON MODE REJECTION:	90dB
INPUT PROTECTION:	Reverse Polarity Protected
OUTPUT PROTECTION:	Short Circuit Protected
OPERATING TEMPERATURE:	-29°C to 82°C (-20°F to 180°F)
STORAGE TEMPERATURE:	-40°C to 120°C (-40°F to 250°F)
WIRING:	W = Shielded cable 1 = Microtech type connector or equivalent (female input, male output) with unwired mate 4 = PTO-E8-S connector if input, without mate PTO-E8-P connector if output, without mate
SPECIAL OUTPUT CABLE LENGTH TYPE W:	L00F = Replace "00" with total length in feet. L00M = Replace "00" with total length in meters.
CONNECTOR WIRED TO OUTPUT CABLE TYPE W:	C = Microtech type male or equivalent (w/o mate) RS = RJ Telephone type male (w/o mate) WI = Wire to sensor
WIRE AMPLIFIER INPUT TO A SENSOR:	
MATING CONNECTORS FOR CONNECTOR OPTIONS:	Click here to see Cable and Connector Bulletins

Model Number construction

IMI Series	-	24 Power Required	-	/10 Sensor Supply Voltage	-	/0.5A Gain	-	W (IN) W (OUT) Cable or Connector	-	/WI/L3M/C Options
		10 to 40		10		0.1A 0.5A 0.016 to 1.6 420M		WW 44 W1 4W 1W W4 11		C or RS L00F or L00M WI