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TECHNOLOGY GROUP

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Find the *Measurement Specialties / Entran IMV-15/L-MTP* at our website: *Click HERE*

Entran® Electronics (In Stock)



IMV

Amplifier
General Purpose - Voltage to Voltage

Entran's IMV Series Amplifier Modules spearhead an entirely new concept in general purpose signal conditioning. The IMV devices are designed to provide the user with a compact module capable of translating the output derived from any of Entran's pressure, force or acceleration sensors into a high level output that can be adjusted to match your recorder or readouts. The IMV system can now provide designers and researchers with signal processing ideal for permanent or portable applications. It is available with **gains from 1 to 1000** and sensor supply voltages of from 5V to 15V. Both gain and null controls are externally accessible.

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)
WIRE AMPLIFIER INPUT TO A SENSOR:	WI = Wire to sensor
INPUT TO OUTPUT ISOLATION:	IO = >100MΩ at 500V
MATING CONNECTORS FOR CONNECTOR OPTIONS:	See Cable and Connector Bulletins

Model Number construction

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

"Off-the-Shelf" Stocking Program

SPECIFICATION NO.	ISSUE
IMS00001U	WC0

Please refer to Entran's Sensors & Electronics eCatalog to verify all specifications.
Specifications are subject to change without notice.

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