





FEATURES

- Bipolar Output, Differential Input
- ±5 or ±10 VDC Outputs
- Bridge Excitation: 5 or 10 VDC (DIP Switch)
- Ranges: 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 4.0, 10.0 mV/V (DIP Switch)
- 256 Selectable Shunt Combinations: $30k\Omega$, 43.7kΩ, 60.4kΩ, 87.6kΩ, 100kΩ, 150kΩ, $300k\Omega$, $432k\Omega$ (DIP Switch)
- Externally Accessible Shunt Cal Activation Button
- Digitally Controlled Remote Shunt
- Internal Span and Offset Potentiometers
- Sensor Polarity Reversal DIP Switch
- Zero Shift DIP Switch
- Class 1 Certification for Aerospace and Medical Grade Devices

IMPORTANT NOTE: DO NOT CONNECT **DEVICE TO POWER SUPPLY WHEN** POWER SUPPLY IS ALREADY ON

SPECIFICATIONS						
PARAMETER	MIN.	TYP.	MAX.	UNIT		
Power Supply	12.5		26	VDC		
Current Consumption		30¹	100	mA		
Output Impedance		1		Ohm		
Sensor Impedance	350/754		5000	Ohm		
Bandwidth (Setting 1)		1000		Hz		
Bandwidth (Setting 2)		10000²		Hz		
Bandwidth (Setting 3)		25000³		Hz		
Common Mode Rejection Ratio	120			dB		
Noise		10		mVp-p		
Output Span range	-10		10	% of FSR		
Output Zero range	-10		10	% of FSR		
Gain Drift with Temperature	-25		25	PPM of FSF		
Nonlinearity	0.01		0.01	% of FSR		
Zero Drift with Temperature	-25		25	PPM of FSF		
Operating Temperature	32 [0]		158 [70]	°F [°C]		
Storage Temperature	-40 [-40]		185 [85]	°F [°C]		
Relative Humidity		95% at 100 [39]		°F [°C]		
PHYSICAL FEATURES						
Material	Stainless steel	Stainless steel cover with aluminum body fastened by magnets				
Protection	IP50					
Weight (approx.)	0.23 lb (104 g)					
Power	LED Indicated					
CONFORMITY						
RoHS	2011/65/EU					
CE	EN61326-1:2013; EN55011:2009 (Amended by A1:2010) Class 1 Certification for Aerospace and Medical Grade Devices					

















¹ Stand-alone current consumption. Adding the strain gauge and output current will increase current consumption

² Only for Sensitivity of 1.0 mV/V or Greater

³ Only for Sensitivity of 1.5 mV/V or Greater

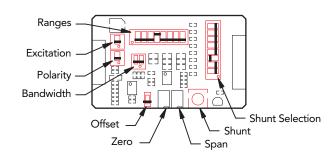
 $^{^{4}}$ 350 Ohms for 5 V excitation and 75 Ohms for 10 V excitation

Model IAA100

DIMENSIONS inches [mm]

Detachable screw terminal Power side Integrated DIN clip for 35mm rail 3.32 [84.33] 2.60 [66.04] 2.04 [51.82] Sensor side 0.70 [17.78]

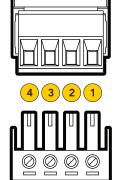
DIP SWITCHES CONFIGURATION



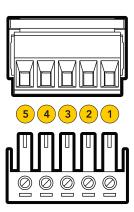
SENSOR SIDE				
PIN	WIRING CODE			
1	+ EXCITATION			
2	+ SIGNAL			
3	– SIGNAL			
4	– EXCITATION/SHIELD⁴			



Note: Sensor cable shield connections should be grounded on one end, either the sensor side or the IAA sensor input side, to avoid potential ground loops.



POWER SIDE					
PIN	WIRING C	COLOR			
1	+Vin	Power Supply	Red		
2	Gnd	Power Ground/Shield	Black		
3	Shunt	Remote Connection	Orange		
4	Gnd	Output Ground/Shield	Blue		
5	Vout/lout	Output Signal	Green		



Drawing Number: FI1363-F

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