



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: 30kΩ,
 43.7kΩ, 60.4kΩ, 87.6kΩ, 100kΩ, 150kΩ,
 300kΩ, 432kΩ (DIP Switch)
- Externally Accessible Shunt Cal Activation
- Digitally Controlled Remote Shunt
- Internal Span and Offset Potentiometers
- Sensor Polarity Reversal DIP Switch
- Zero Shift DIP Switch
- IPC-A-610 Class 3 Assembly (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	16		26	VDC
Current Consumption		30¹	100	mA
Load Impedance	14000			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 FSR
Nonlinearity	0.01		0.01	% of FSR
Zero Drift with Temperature	-25		25	PPM of FSR
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 o	cover with alumin	um body fasten	ed by magnets
Protection	IP50			
Weight (approx.)	0.23 lb (104 g)			
Power	LED Indicated			
CONFORMITY				
RoHS	2011/65/EU			
CE		13; EN55011:200 ation for Aerospa		



- ² Only for Sensitivity of 1.0 mV/V or Greater
- ³ Only for Sensitivity of 1.5 mV/V or Greater
- $^{\rm 4}$ 350 Ohms for 5 V excitation and 75 Ohms for 10 V excitation















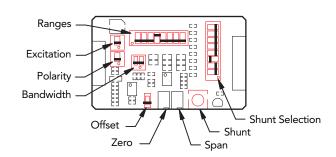
¹ Stand-alone current consumption. Adding the strain gauge and output current will increase current consumption

Model IAA100

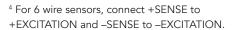
DIMENSIONS inches [mm]

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]

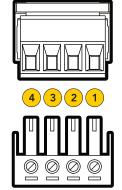
DIP SWITCHES CONFIGURATION



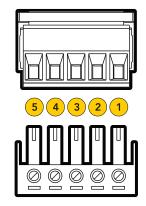
SENSOR SIDE WIRING CODE PIN + EXCITATION 2 + SIGNAL 3 - SIGNAL - EXCITATION/SHIELD4



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 CODE		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	







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