



FEATURES

- Uni-directional/bi-directional output, differential input
- 256 selectable shunt and gain combinations (DIP Switch)
- Digitally controlled remote shunt with externally accessible activation button
- Internal span and offset potentiometers
- Sensor polarity reversal DIP switch
- Zero shift DIP switch (selectable 0 and midpoint)
- Reliable spring loaded DIN clip design
- Removable magnetic cover for instrument setting access and protection
- External chassis connection (Refer to Guide)
- Hot swappable with on-board ESD and over voltage/ current protection

MATERIAL & MANUFACTURING

- High-reliability PCB/assembly (IPC CLASS III)
- High-temperature rated material/BOM items
- Strictly controlled inspection, test, and calibration process
- Fully controlled handling/packaging process
- Extensive test and validation for 100% of production units
- Individual calibration report/certification for instruments and systems

APPLICATIONS

- Medical
- Aerospace
- Precision Industrial Automation
- Lab & Field Instrumentation
- Precision Manufacturing

SPECIFICATIONS		
GENERAL		
Item Number	FSH04936	
Material	Aluminum Body/Stainless Steel Cover	
Weight	0.23 lb [105 g]	
IP Rating	IP40	
INPUT		
Input Type	Strain Gauge (Differential Input from ± 0.2 to ± 500 mV/V) ³	
Internal Shunt Value	30, 43.7, 60.4, 87.6, 100, 150, 300, 432 kΩ (±1%)	
Nonlinearity	±0.01% of FSR ¹	
Bridge Excitation	5 or 10 VDC (DIP Switch)	
Min/Max Bridge Resistance	87.5 to 5000 Ω	
OUTPUT		
Gain Range	110 to 6300 ²	
Output Range	4 - 20, & 12 ±8 mA	
Load Impedance	< 500 Ω	
Bandwidth	See Chart ⁴	
Noise	See Chart ⁴	
Calibration Span/Offset range	±10% of FSR ¹	
POWER		
Supply	12.5 to 26 VDC	
Inrush Current	1 A (Max)	
Power Consumption	1 W (Max)(Instrument Only)	
Power Indicator	Green LED	
ENVIRONMENT		
Operating Temperature	-13° to 158°F (-25° to 70°C)	
Storage Temperature	-40° to 185°F (-40° to 85°C)	
Temperature Stability/Drift	±25 ppm of FSR¹/°C	
CONFORMITY		
RoHS	2011/65/EU Compliant	
CE	FCC 15.107:2022, FCC 15.109:2022, FCC 15.109(g):2022, ICES-003 Issue 7:2020, VCCI-CISPR 32:2016, EN IEC 61326-1:2021	



Load · Torque · Pressure · Multi-Axis · Calibration · Instruments · Software









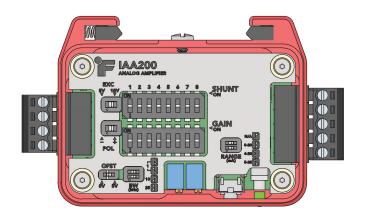






Model IAA200

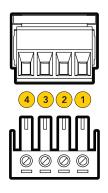
DIP SWITCHES CONFIGURATION



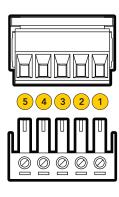
NOISE				
Default Gain μΑρ-ρ				
15				
20				
25				

SENSOR SIDE (item #GOD04254)				
PIN	WIRING CODE	PIN FUNCTIONALITY		
1	+ E	+ Excitation		
2	+ S	+ Signal		
3	- S	– Signal		
4	– E/GND	– Excitation		





POWER/OUTPUT (item #GOD04255)				
PIN	WIRING CODE	PIN FUNCTIONALITY	COLOR	
1	+VIN	Power Supply	Red	
2	GND	Power Ground	Black	
3	SHUNT	Remote Connection	Orange	
4	GND	Output Ground	Blue	
5	IOUT	Output Signal	Green	



General Notes:

- ¹ FSR = Full Scale Range (Default Settings)
- ² Gain = 2 If all switches are in OFF position
- ³ The minimum differential input is determined based on a 10 V excitation and maximum gain to attain the maximum output range
- $^{\rm 4}$ See "Noise" chart located in page 2 for detailed information All Grounds are internally connected

Use Chassis for systems with cable Shield

All parameters specified on this drawing have been validated for default settings (0-2 mV/V input at 1 kHz bandwidth with a 10 V excitation for 4-20 mA output) unless otherwise specified.

 $\mathsf{Load} \cdot \mathsf{Torque} \cdot \mathsf{Pressure} \cdot \mathsf{Multi-Axis} \cdot \mathsf{Calibration} \cdot \mathsf{Instruments} \cdot \mathsf{Software}$









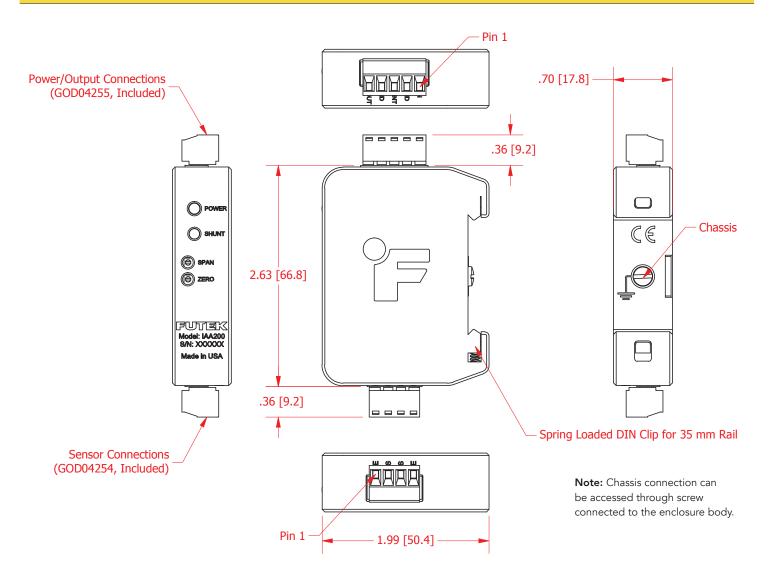






Model IAA200

DIMENSIONS inches [mm]



Drawing Number: FI1574-A

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