



IAA100 Strain Gauge Analog Amplifier with Voltage Output

The IAA100 Strain Gauge Analog Amplifier with Voltage Output converts low-level mV/V signals from full-bridge strain gauge sensors into clean, stable voltages that integrate directly with common DAQs and PLCs. Straightforward configuration and built-in verification features support quick deployment, consistency across setups, and dependable results from development through production.



COMPARISON TABLE		
Features	IAA100 (FSH04935)	IAA100 (FSH04939)
Improved Temperature Stability	±25 ppm of FSR/°C	±15 ppm of FSR/°C
Bridge Input Range	±0.2 to ±500 mV/V	±0.2 up to ±18 mV/V
Improved Noise Performance	10mVp-p (Typ)	8mVp-p (Typ)
Improved Power Consumption	1 W (Max) (instrument only)	0.75 W (Max) (instrument only)
Reduced Inrush Current	1.2 A (Max)	0.8 A (Max)
Improved Gain Range	110 to 6300	110 to 6575
Load Impedance	>4000Ω	>4000Ω
Operating Temp	-13° to 158°F [-25° to 70°C]	-13° to 158°F [-25° to 70°C]
Bandwidth	1/10/25kHz	1/10/25kHz
Non-linearity	±0.01% of FSR	±0.01% of FSR
Gain Setup/Configuration	256 selectable gain combinations	256 selectable gain combinations
Shunt Calibration	256 selectable shunt combinations	256 selectable shunt combinations
Output Ranges	±5, ±10 VDC	±5, ±10 VDC
Power Supply	16 - 26 VDC	16 - 26 VDC