



IAA200 Analog Amplifier with Current Output

The IAA200 Analog Amplifier with Current Output converts low-level mV/V inputs from full-bridge strain gauge sensors into a robust current output, enabling reliable signal transmission over long cable runs in electrically noisy industrial environments. Straightforward configuration and built-in verification features support quick deployment, consistency across setups, and dependable results from development through production.



COMPARISON TABLE		
Feature	IAA200 (FSH04936)	IAA200 (FSH04940)
Expanded Output Ranges	4-20 & 12 $\pm$ 8 mA	4-20, 0-20, 5-25, & 12 $\pm$ 8 mA
Updated Power Supply Requirements	12.5 to 26 VDC	16 to 26 VDC
Improved Temperature Stability	$\pm$ 25 ppm of FSR/ $^{\circ}$ C	$\pm$ 15 ppm of FSR/ $^{\circ}$ C
Bridge Input Range	$\pm$ 0.2 to $\pm$ 500 mV/V	$\pm$ 0.2 to $\pm$ 18mV/V
Improved Noise Performance	15 μ Ap-p (Default Gain)	6 μ Ap-p (Default Gain)
Improved Power Consumption	1 W (Max) (Instrument Only)	0.8 W (Max) (Instrument Only)
Reduced Inrush Current	1 A (Max)	0.6 A (Max)
Improved Load Impedance	< 500 Ω	< 600 Ω
Improved Gain Range	110 to 6300	110 to 6575
Operating Temp	-13 $^{\circ}$ to 158 $^{\circ}$ F (-25 $^{\circ}$ to 70 $^{\circ}$ C)	-13 $^{\circ}$ to 158 $^{\circ}$ F (-25 $^{\circ}$ to 70 $^{\circ}$ C)
Bandwidth	1/10/25kHz	1/10/25 KHz
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