

ASUNIAMP 3-Wire Universal Bridge Amplifier

The ASUNIAMP is a universal and highly flexible board for 3-wire systems providing two outputs. Output 1: 4-20mA, Output 2: 0-5V / 0-10V / 2.5-7.5V / 0+-5V / 0+-10V, designed to fit inside a standard- or DIN-rail carrier enclosure. The unit has individual dual multi-turn potentiometers for the very precise setting of Zero and Span and is also available with mid. zero output (for example 12mA) for compression / tension transducers. The inputs provide EMI-/RF-suppression and the board has been tested for radiated immunity. The transducer, power supply and output wires can be easily connected to the board using a single 12-way clamp connector.

Features

- Wide-range power supply 12-28V¹
- 10V or 5V stabilized bridge excitation
- Bridge resistance 120 Ohm (or greater)
- Bridge sensitivity 0.35mV/V – 3.5mV/V
- Size (LxBxH): ca. 72 x 108 x 24 mm
- Fast calibration procedure
- Output filter (off, TC: 0.002 – 1 sec.)
- Switchable Zero/Span ranges
- Transducer remote-sensing



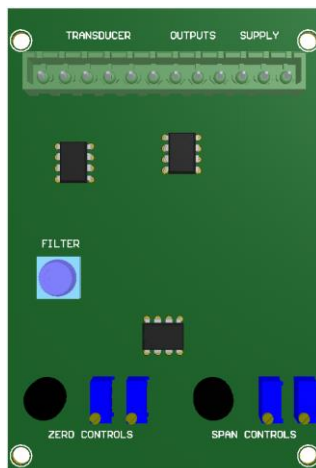
Applications

- Industrial Weighing Applications
- Onboard Weighing
- Load Testing & Monitoring

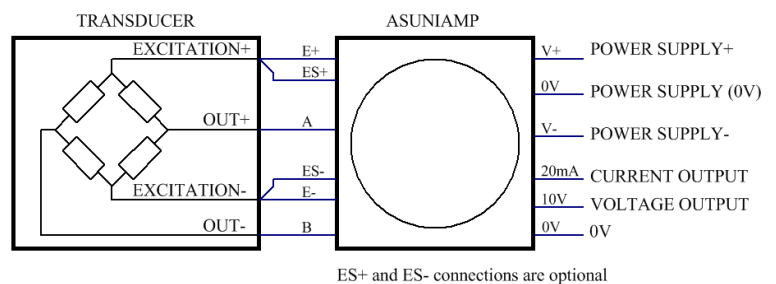
Ordering

Part number:	ASUNIAMP*
*Please specify required voltage output configuration.	
Customer specific electrical / mechanical changes are possible – please contact us with your individual requirements.	

Board Connections



Schematic Diagram





Specifications

Parameter	Min	Typical	Max	Unit
¹ Supply Voltage (4-20mA, 0-5/10V output)	12	24	28	V
¹ Supply Voltage (0+-5V / 0+-10V output)	-12 to -16		+12 to +16	V
Supply Current		120		mA
Current Output – Zero (adjustable control)	3.8	4.00	8.0	mA
Current Output – Span (adjustable control)	15	20.00	24	mA
Output Voltage – Zero (adjustable control)		0.001		V
Output Voltage – Span (adjustable control)		10.00		V
Bridge Sensitivity	0.35		3.5	mV/V
Bridge Resistance	120			Ohms
Bridge Excitation Voltage	5.0	10.0		V
Temperature Coefficient – Zero		0.3		uV/°C
Temperature Coefficient – Span		0.007		%/°C
Operating temperature	-20		50	°C
Radiated immunity (EN 6100-4-3:1996 level 2, 80MHz – 1 GHz, 3V/m)		<1		% error

Optional Extras

Part number:	ASUNIAMP-ENCL1	ABS DIN-Rail Enclosure (opt. wall-mounting plates)
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