

Load Cell Simulator / Strain Gauge Simulator AS600-Series

Features

- Selectable bridge sensitivities
- Selectable bridge resistances
- Switched output polarities
- Output accuracy: +/-0.01%, +/-0.0001mV/V
- No batteries required
- Rugged aluminium design

Applications

- Amplifier calibration
- Transducer / Amplifier fault-finding
- System commissioning

Board / Connector Overview



Description

The AS600-series simulate any type of bridge transducer commonly used for example in Load-Cells, Strain-Gauges, Pressure Sensors and Extensometers, etc. The dual attenuator network gives a symmetrical output simulating a full active bridge sensor and can be switched to give a positive, zero and negative output. It is mounted in a IP54 aluminium die-cast box providing durability in either laboratory or field environments.

Ordering

 Part number:
 AS600, AS610, AS620, AS630

 Customer specific electrical / mechanical changes are possible

 – please contact us with your individual requirements.

Schematic Diagram



Specifications – AS600

Parameter	Min	Typical	Max	Unit
Bridge Resistance settings (standard)	120, 240, 350, 700, 1000			Ohms
Bridge Resistance tolerance	-5	1	5	%
Bridge Output settings (standard)	0 / 0.2 / 0.4 / 0.6 / 0.8 / 1.0 / 1.2 / 1.6 / 2.0 / 2.5 / 3.0			mV/V
Bridge Outputs tolerance	+/- 0.01% of reading, +/- 0.0001 mV/V			
Polarity switch settings	negative, zero, positive			
Excitation Voltage			20	V AC, V DC
Size (L x B x H)	115 x 90 x 75			mm
Weight	350			grams
Connectors	binding posts			
Panel silkscreen colour	black			

Bridge Output is measured with 1 GOhm load resistance (unless otherwise specified)

Customer-specific bridge resistance ranges and outputs are possible, as well as company name printed on enclosure lid. Please contact us with your individual requirements.

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Specifications – AS610

INIIN	i ypical	Max	Unit
120, 350, 700, 1000, 2000			Ohms
-5	1	5	%
0/0.1/0.2/0.3/0.4/0.5/0.6/0.7/0.8/0.9/1.0			mV/V
+/- 0.01% of reading, +/- 0.0001 mV/V			
negative, zero, positive			
		20	V AC, V DC
115 x 90 x 75			mm
350			grams
binding posts			
	black		
	120, -5 0/0.1/0.2/0.3 +/- 0.01% o neg	120, 350, 700, 1000, -5 1 0/0.1/0.2/0.3/0.4/0.5/0.6/0. +/- 0.01% of reading, +/- 0. negative, zero, posi 115 x 90 x 75 350 binding posts black	120, 350, 700, 1000, 2000 -5 1 0/0.1/0.2/0.3/0.4/0.5/0.6/0.7/0.8/0.9/1.0 +/- 0.01% of reading, +/- 0.0001 mV/V negative, zero, positive 20 115 x 90 x 75 350 binding posts black

Bridge Output is measured with 1 GOhm load resistance (unless otherwise specified)

Specifications – AS620

Parameter	Min	Typical	Max	Unit
Bridge Resistance settings (standard)	350, 1000, 2000, 6000, 8000			Ohms
Bridge Resistance tolerance	-5	1	5	%
Bridge Output settings (standard)	0 / 0.2 / 0.4 / 0.6 / 0.8 / 1.0 / 1.2 / 1.6 / 2.0 / 2.5 / 3.0			mV/V
Bridge Outputs tolerance	+/- 0.01% of reading, +/- 0.0001 mV/V			
Polarity switch settings	negative, zero, positive			
Excitation Voltage			20	V AC, V DC
Size (L x B x H)	115 x 90 x 75			mm
Weight	350			grams
Connectors	binding posts			
Panel silkscreen colour		black		

Bridge Output is measured with 1 GOhm load resistance (unless otherwise specified)

Specifications – AS630

Parameter	Min	Typical	Max	Unit
Bridge Resistance settings (standard)	120, 240, 350, 700, 1000			Ohms
Bridge Resistance tolerance	-5	1	5	%
Bridge Output settings (standard)	0 / 0.2 / 0.4 / 0.6 / 0.8 / 1.0 / 2.0 / 3.0 / 3.5 / 4.0 / 5.0			mV/V
Bridge Outputs tolerance	+/- 0.01% of reading, +/- 0.0001 mV/V			
Polarity switch settings	negative, zero, positive			
Excitation Voltage			20	V AC, V DC
Size (L x B x H)	115 x 90 x 75			mm
Weight	350			grams
Connectors	binding posts			
Panel silkscreen colour		black		
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Bridge Output is measured with 1 GOhm load resistance (unless otherwise specified)