

Analog signal conditioner

SGA21 / SGA21-2S

±10 V/0-10 V / 4-20 mA

- The SGA21 is able to run up to 4 strain gauge load cells (350 Ohm)
- 4 or 6 wire load cell
- Voltage output (±10 Vdc or 0-10 Vdc) and current output (4-20 mA)
- Shunt calibration signal
- 2 set points on relays optional SGA21-2S



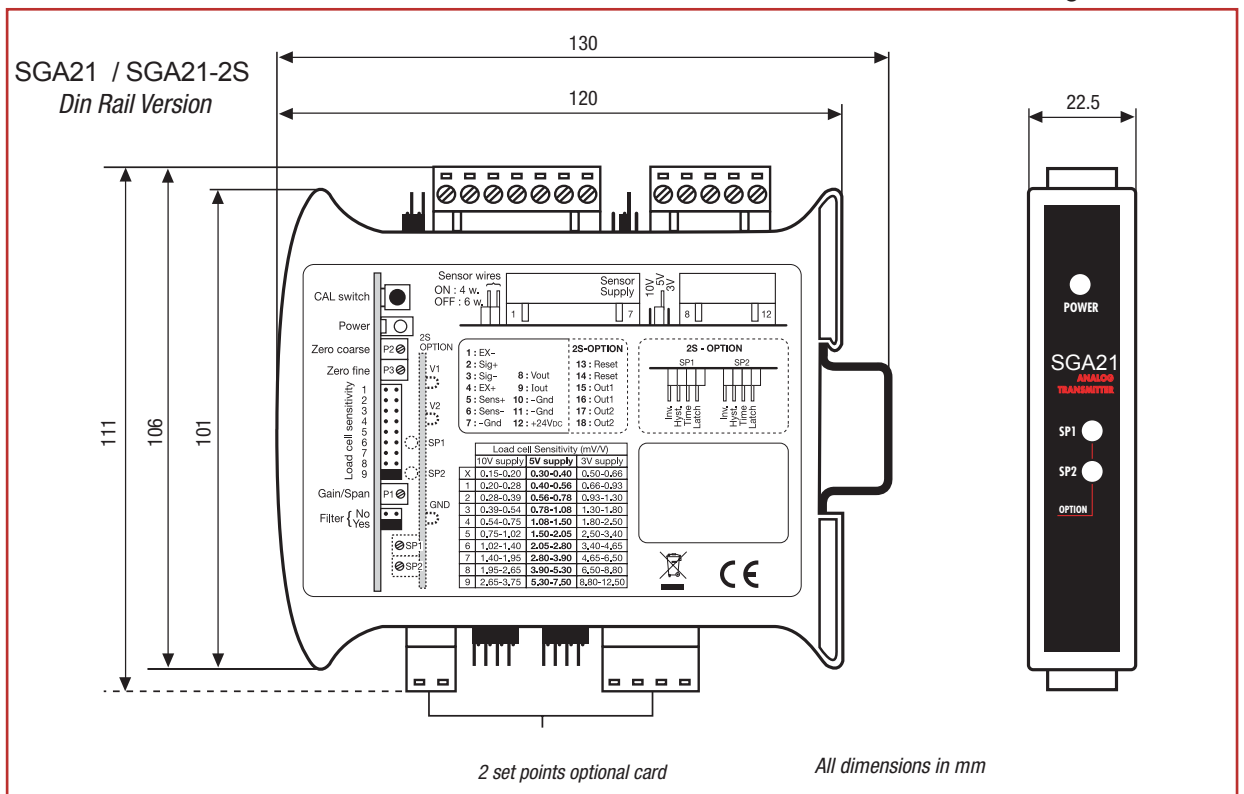
SGA21 / SGA21-2S DIN Rail Version



SGA21-1 / Board Version



SGA21-3 / Housing Version



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 P.O. BOX 740755
 ARVADA, CO 80006-0755 USA
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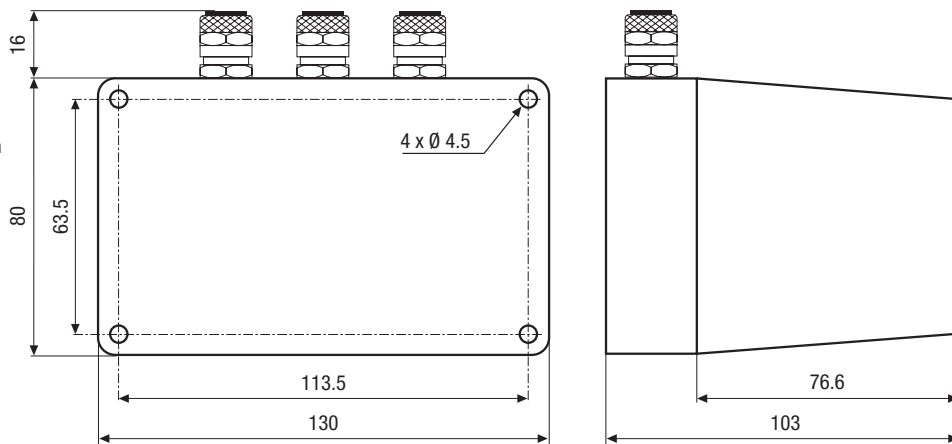
TEL: (303) 465-1011
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 E-Mail: TENSION@TENSION-MEASUREMENT.COM

SGA21/SGA21-2S

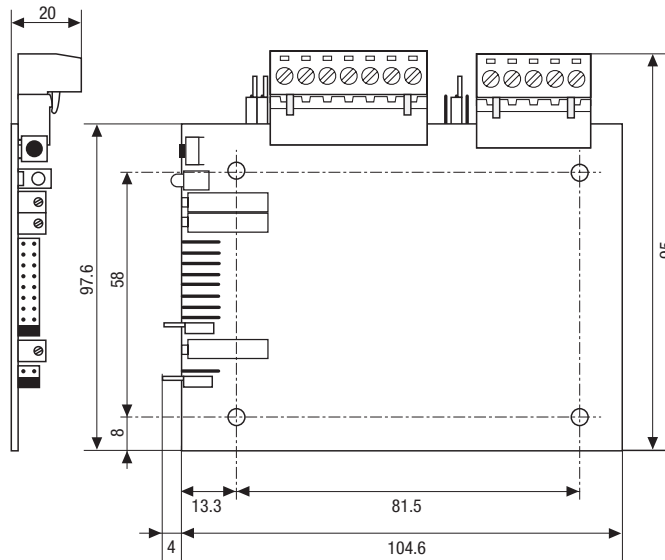
Analog signal conditioner

SGA21-3
Housing Version

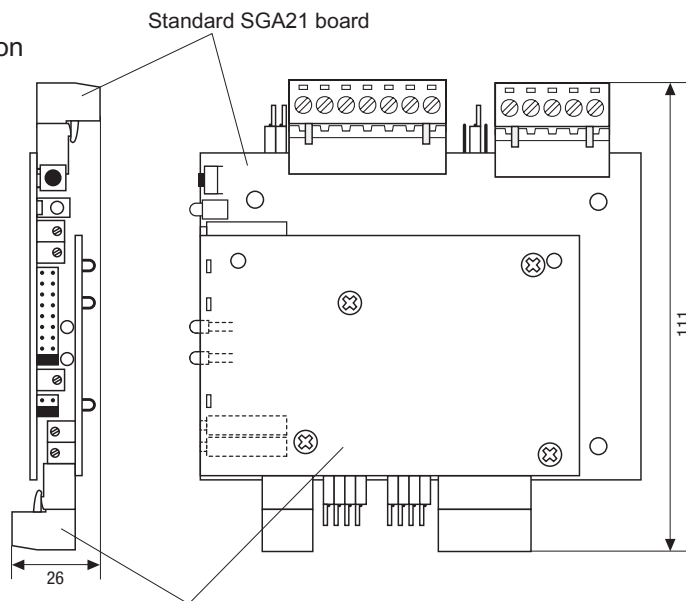
Not available on
SGA21-2S



SGA21-1 board version



SGA21-2S board version



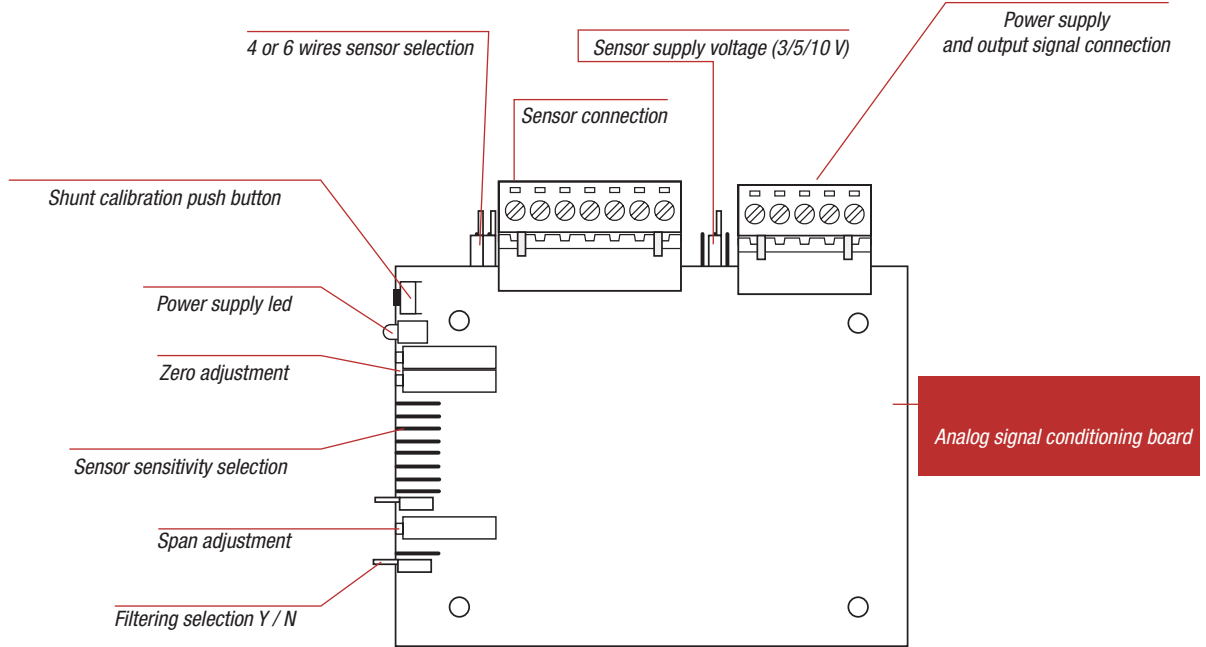
2 set points optional board

All dimensions in mm

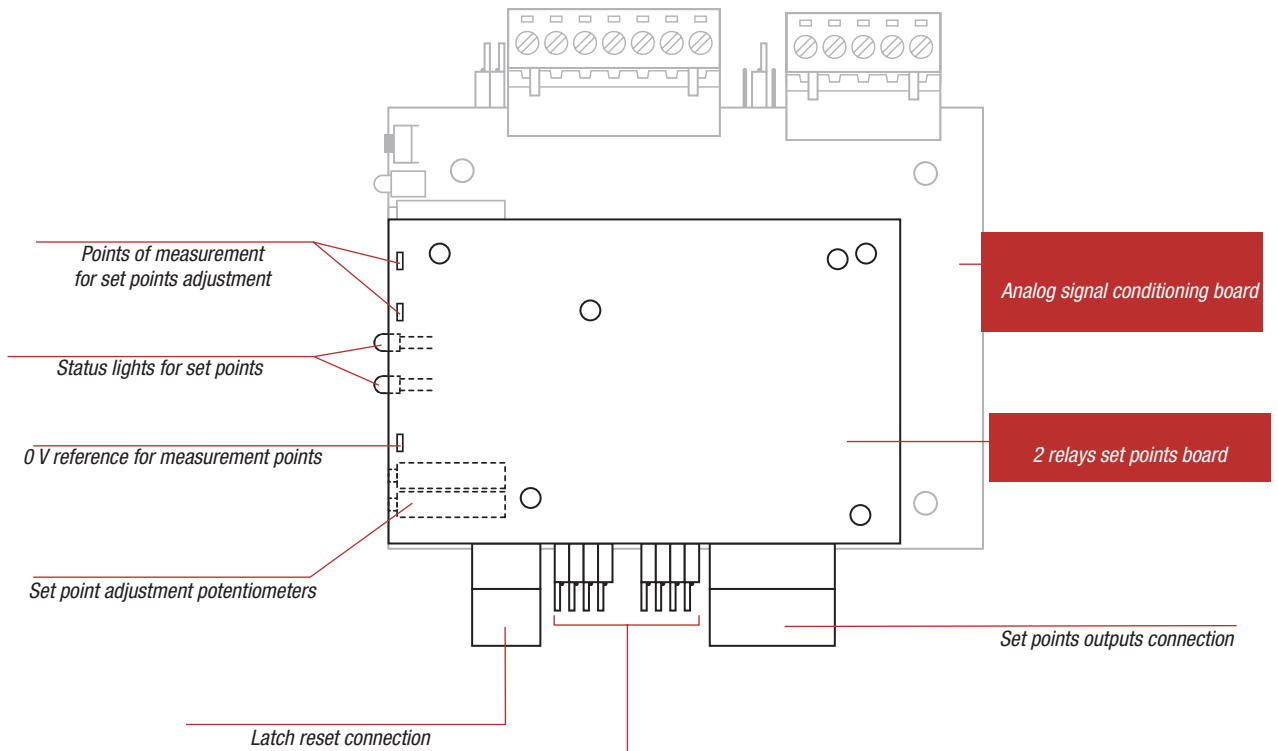
SGA21/SGA21-2

Analog signal conditioner

SGA21 wiring and setting



SGA21-2S wiring and setting



Set points setting:

- Relay Normally Open / Close
- Hysteresis 0.2 / 1.1 %
- Relay Holding time 5 / 600 ms
- Latch fonction Y / N

SGA21/SGA21-2S

Analog signal conditioner

SGA21 Specifications

Power supply	24 ±4	Vdc
Accuracy class	0.05	%
Temperature effect on zero	≤0.035	%FS./*°C
Temperature effect on span	≤0.02	%/°C
Operating temperature range	0...+70	°C
Load cell input voltage (engaged with jumper)	3, 5, 10	Vdc
Min. load cell impedance: excit. 3/5 V	80	Ω
excit. 10 V	160	Ω
Span adjustment	0.15...12	mV/V
Max supply current SGA21 / SGA21-2S	120 / 170	mA
Voltage output	±10, 0-10	V
Current output	4-20	mA
Load impedance for voltage output	≥ 2000	Ω
Load impedance for current output	≤ 500	Ω
Capacitive load on the output	≤ 1	nF
Filtering (engaged with jumper) low pass (-3dB)	10	Hz
Bandwidth	≤ 20	KHz

SGA21 - SGA21-2S Set points specifications

GENERAL

Number of set points	2
Adjustment	2 potentiometers
Selectable functioning direction	yes
Hysteresis	1.1 / 0.2 % F.S.*
Holding time	5 / 600 ms
Latch function	yes
Response time	7 ms

RELAY

Technology	Photorelays
On-state current max. at 40°C	0.4 A
Off-state voltage	55 V
On-state resistance	2 Ω
Isolation voltage	2 500 Vrms

* F.S. : Full scale

Options

Input for potentiometer

Customized filtering	0.5...450	Hz
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Power supply 12 Vdc**

** Output voltage limited to ±5, 0-5 V