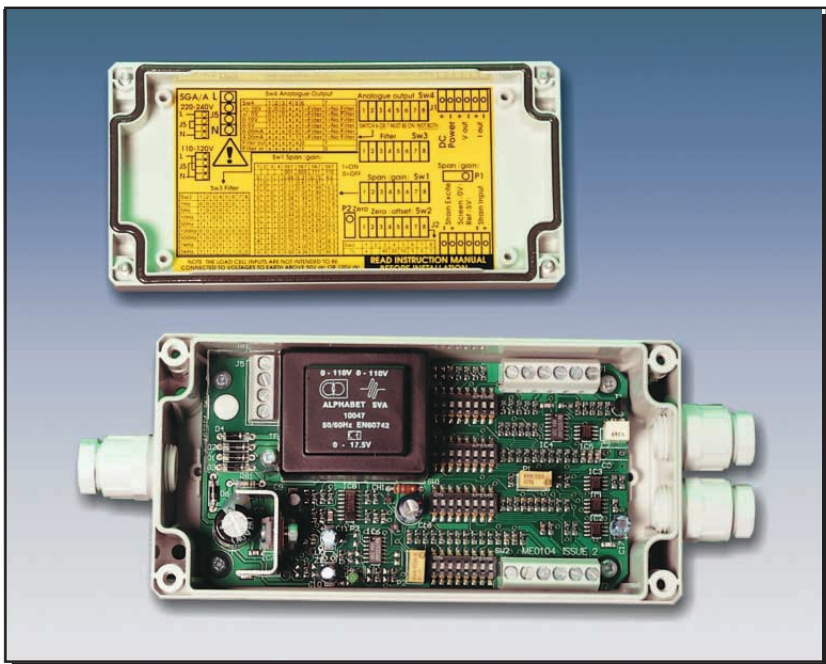




Conditionneur pour capteur de pesage ANALOG CONVERTER FOR LOAD CELLS

Mod. SGA



The Converter SGA is an analog signal conditioner specific for load cells and for transducers based on strain gauges Wheatstone bridges.

SGA converts the load cell output signal to different kinds of analog standard outputs used in industrial instrumentation. With DIL switches can be selected: Current output 0-20 mA or 4-20 mA; "Unipolar" voltage output 0-5V or 0-10V and "Bipolar" voltage output $\pm 5V$ or $\pm 10V$.

It has integrated filter with selectable cut-off frequencies from 1Hz to 5 KHz, for reducing oscillations induced by mechanical vibrations and/or electrical noise, providing stable readings under adverse conditions.

- ||| User-selectable analogue output:
 $\pm 10V$, $\pm 5V$, 0-10V, 0-5V, 0-20mA, 4-20 mA.
- ||| **Power supply:** 4 load cells of 350 Ω or 8 load cells of 700 Ω .
- ||| **Gain adjustment** for different Load Cell sensibilities by DIL switches and fine adjustment potentiometer.
- ||| **Zero adjustment** up to 80% offset by DIL switches and fine adjustment potentiometer.
- ||| **Enclosure** IP65 ABS case 160x80x55 mm with 3 cable glands.

||| VERSIONS:

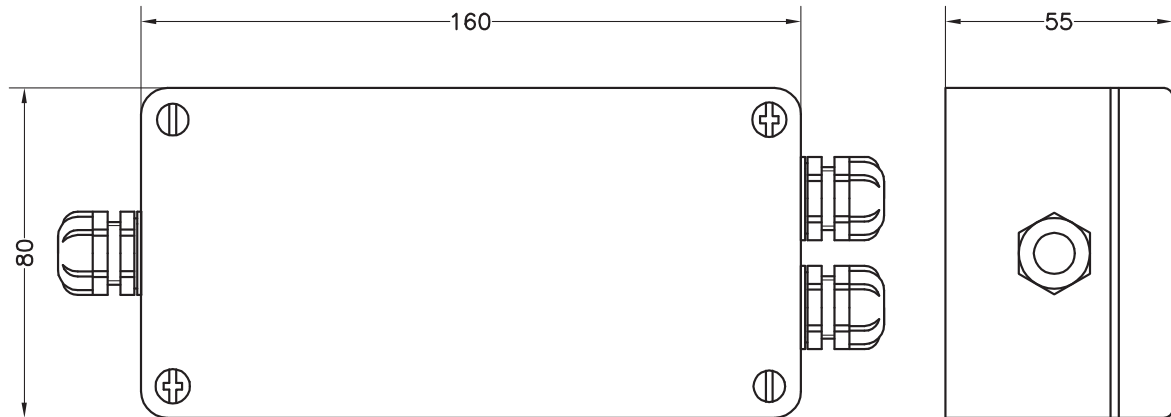
- 89060** mod. **SGA/A**
Power supply 110/230 V AC 50/60Hz
and 18/24 V DC
- 89061** mod. **SGA/D**
Power supply 18/24 V DC

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MOD. SGA/A - SGA/D



Dimensions in mm.

Transport weight: 0.5 kg

TECHNICAL SPECIFICATIONS

Parameter	Min.	Typical	Max.	Units
Power supply (SGA/A): (110/230V AC) 50-60Hz	-	110/230	-	V AC
Power supply (SGA/A and SGA/D) DC:.....	18	-	24	V DC
Power supply current DC: (depends on loading)	-	90	-	mA
Load cell excitation:	-	10	-	V
Minimum load cell resistance:.....	85	-	-	Ohms
Bridge sensitivity (Switchable):	0.06	-	29	mV/V
Gain adjustment (Pot-fine adj.):	0.06	-	1.0	mV/V
Offset adjustment (Pot-fine adj.):	0	-	±1.25	% FS
Offset adjustment (Weitchable-coarse adj):	±1.25	-	±79	% FS
Output load (Voltage output):	-	-	2	mA
Output load (Current output):	0	-	500	Ohms
Bandwidth (No filter >2mV/V)	DC	-	> 6	kHz
Filter cut-off (Switchable ranges):	1	-	5000	kHz
Zero temperature coefficient:	-	0.5	-	µV/°C
Span temeperature coefficient:	-	0.007	0.01	% /°C
Linearity:	-	0.03	-	% FS
Gain stability -1st 1000 hours:	-	0.2	-	% FS
Gain stability -2nd 1000 hours:	-	0.1	-	% FS
90 days Offset stability:	-	3.3	-	µV
Operating temperature range:	-10	-	50	°C
Storage temperature range:	-20	-	70	°C
Humidity:	-	-	95	%

Analog output: ±10V, ±5V, 0-10V, 0-5V, 0-20mA, 4-20mA

Connections: Field Screw terminals of 2.5 mm²

Enclosure: IP65 ABS case 160x80x55 mm with 3 cable glands.

Controls:..... Gain pot
 Offset pot
 Coarse gain switches
 Coarse offset switches
 Filters cut-off switches
 Output mode switch