

● Characteristics

0620 - WEIGHING SYSTEM - SOLUTION - VESSEL - SILO - TANK - SCALE



- Input strain gauge: up to 4 full bridges (350 Ω)
- Sensitivity strain gauge: 0,1...4 mV/V (by steps)
- Output: 2...10 V and 4...20 mA,
0...10 V and 0...20 mA
- Voltage supply: 42 VAC / 115 VAC / 230 VAC / 24 VAC / 48 VAC
24 VDC galvanically insulated
- Limit value: 2 potential free change over contacts (option)
- Bridge supply: 4...14 V adjustable
- Linearity: ± 0,02% of end scale value
- Mounting: top hat rail
- Measurement monitoring: sensor break
- Adjustment limit value: no need to connect strain gauge

● Technical data

Input

Strain gauge:	full bridges:	up to 4, 350 ohms (sum signal) overall >80 Ohm
Precise adjustment:	sensitivity:	0,1 / 0,25 / 0,75 / 1 / 1,5 / 2 / 2,5 / 3 / 4 mV/V
Zero point:	continuously about:	±20%
	offset:	±40% / ±80% (range selectable with solder bridge)
Filter:	active low-pass:	20 dB/Octave, 5 Hz

Output

Current and voltage:	2...±10 V and 4...±20 mA 0...±10 V and 0...±20 mA selectable with DIP switches
Working resistance:	>600 Ω
Loading resistance:	<500 Ω
Bridge supply:	4...14 VDC (continuously adjustable with potentiometer)
Sensor break:	bridge resistance: >80 Ω output signal upscale output signal downscale (Selectable with jumper)

Limiting value switch

Relays:	2 pcs, potential free change over contact
Contact:	250 VAC 5A
Limit value:	adjustable to: 0...100%
Adjustment:	connection of strain gauge not necessary
Switching Mode:	falling beyond limit value increasing above limit value (Selectable with DIP switches)
Accuracy:	<0,1% of end scale value
Hysteresis:	1% / 10% (selectable with DIP switches)

● Applications

The strain gauge amplifier is usable in all ranges where, with the matching sensors, a measuring of forces is necessary. With the possibilities to adjust the amplifier is easily to fit for the application. The output signal can be processed with eg a SPS.



● Technical data (continued)

Power supply

Voltage:	24 V AC/DC / 42 VDC / 48 VAC / 115 VAC / 230 VAC 24 VDC galvanically insulated
Power consumption:	5...8 VA (depend on model)

Accuracy

Linearity:	<0,02% of end scale value
Temperature coefficient:	<50 ppm / K

Ambient conditions

Operating temperature:	-10...+60°C
Storing temperature:	-20...+70°C

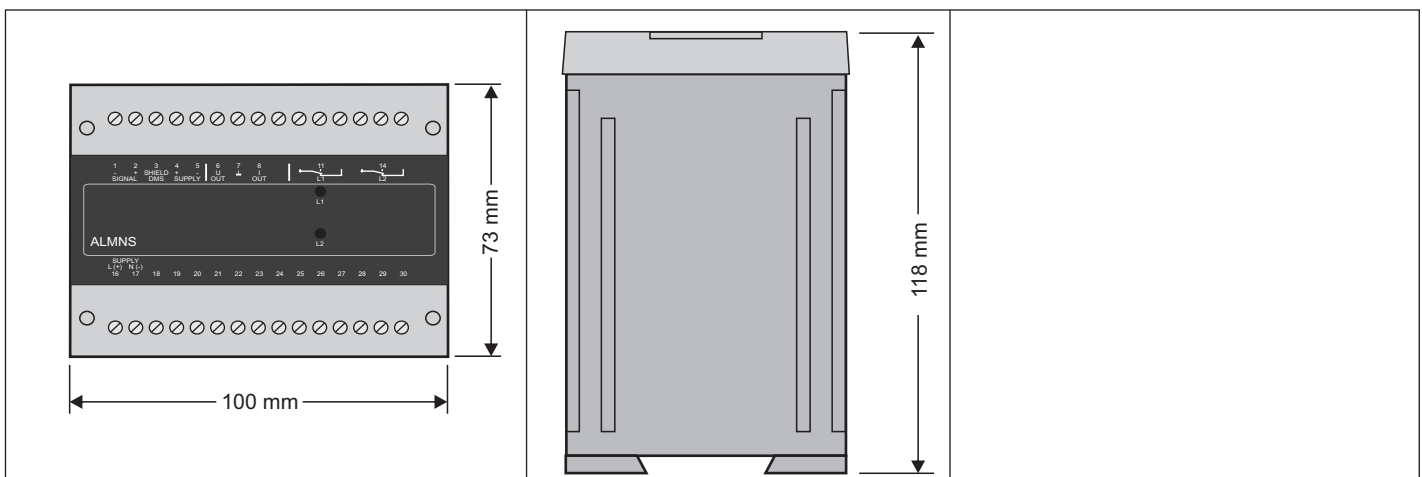
Mechanics

Enclosure:	Material:	polycarbonate GF	
	Dimensions:	100 x 73 x 118 mm	
	Colour:	Bottom part:	black
		Front:	grey
	Connection:	Terminals:	screws up to 4 mm ²
	Mounting:	on top hat rail	
	Protection:	Enclosure:	IP40
		Terminals:	IP20
Weight:	approx. 600 g		

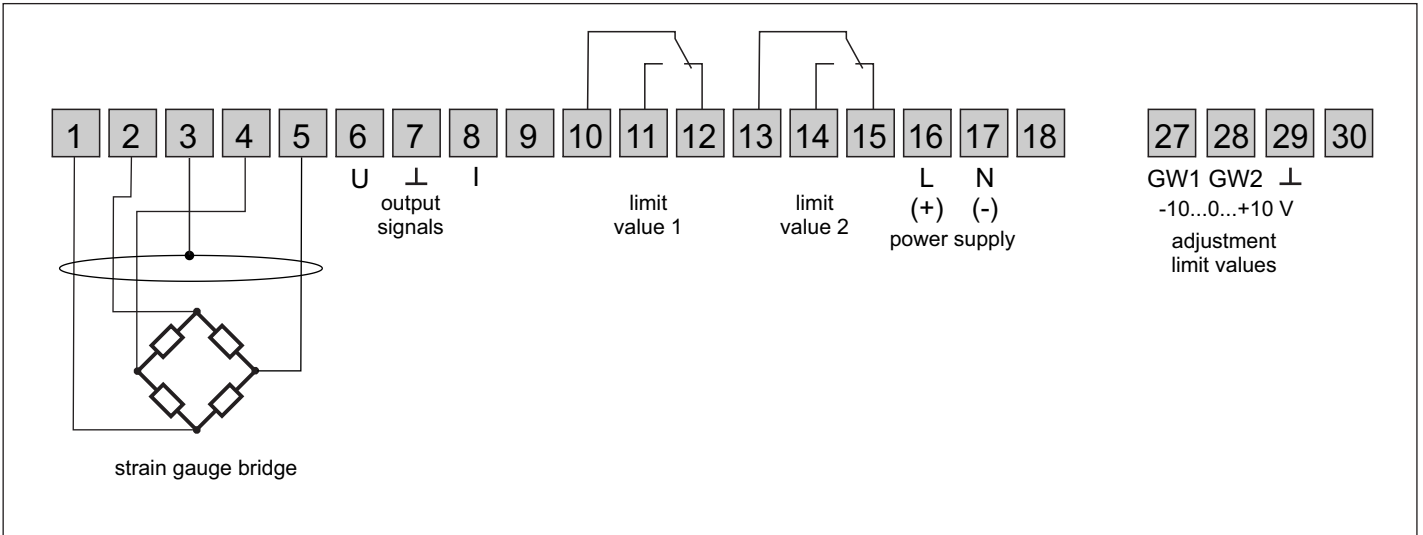
Adjustable parameter

Sensitivity Input:	DIP switches (see input)
Type of output signal:	DIP switches (see output)
Offset zero point:	solder bridge (40% / 80%)
Low-pass filter:	solder bridge (12 / 24 dB / oktave)
Limit frequency:	DIP switches (1 / 10 / 100 Hz)
Limit values:	adjustment with potentiometer (0...100%)
Switching behaviour:	DIP switch (minimum / maximum)
Switching hysteresis:	DIP switch (1% / 10%)
Behaviour on probe break:	solder bridge (upscale / downscale)
Sensor supply:	potentiometer (4...14 V)

● Dimensions (in mm)



● Connection



● Order code

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Input:	0,1...4 mV / V (to specify)	0																		
Analogue output:	2...10 V, 4...20 mA	0																		
	0...10 V, 0...20 mA	1																		
Limit value:	Without	0																		
	2 potential free change over contacts	1																		
Voltage supply:	230 VAC									0										
	115 VAC									1										
	24 VAC / VDC									2										
	24 VDC galvanically insulated									3										
	42 VAC									4										
	48 VAC									5										
Bridge supply:	10 VDC									0										
	Other value (please indicate)									1										
Connection:	Up to 2x 2,5 mm ²																			0
Configuration:	Factory set ¹⁾																			0
	Customized (please indicate)																			1
Other:	Special model (on request)																			0

- 1) Factory set: behaviour on probe break: upscale Zero offset: 40%
 low-pass filter: 12 dB / oktave limit frequency: 1 Hz
 behaviour limit value switch 1: minimum behaviour limit value switch 2: maximum
 hysteresis limit value switch 1: 1% hysteresis limit value switch 2: 1%