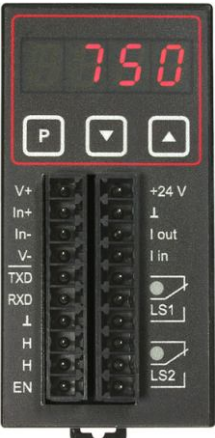


Characteristics

3 - WEIGHING SYSTEM - SOLUTION - VESSEL - SILO - TANK - VEHEICLE - SCALE

	- Input:	1 strain gauge full bridge (350 Ω)
	- Sensitivity:	0,3...5 mV/V
	- Analog output:	4...20 mA
	- Output:	2 relay contacts (limit values)
	- Output:	RS232 interface (limit values, display)
	- Voltage supply:	24 VDC
	- Accuracy:	<0,1% (Gesamtfehler)
	- Bridge supply:	1,6 mA
	- Temperature range:	-10...+60 °C (operating)
	- Protection:	IP20
- Enclosure:	plastics, for top hat rail	

Technical data

Input:

Strain gauge sensor:	1 full bridge (350 Ω)
Sensitivity:	0,3...5 mV/V
Test signal:	increase of output by 4 mA

Output:

Analog:	4...20 mA
Signal range:	3,6...22,8 mA
On error:	signal 3,6 mA
Maximum:	approx. 270 Ω at 24 VDC

Accuracy:

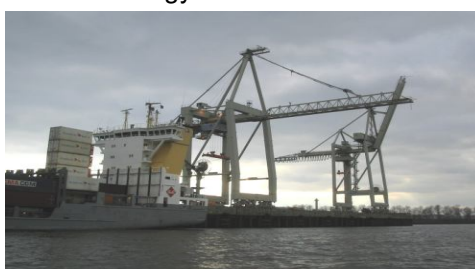
Combined error:	0,1% of range
Resolution current output:	16 bit
Long term stability:	<0,05% / year
Influence of temperature:	<0,05% / 10 °C
Influences:	
Load output:	negligible
Voltage supply:	negligible

Settings:

Rise-delay time:	5 s
Cycle time, update:	0,25 s
Damping:	200 ms (without consideration of electronic damping)
Filter adjustment:	0...160μA (range)
Self stabilisation:	0...2% (zero)
Configuration data:	backup and restore

Applications

For use in all ranges where weights have to be measured, e.g. in electronic vehicle scales, in track scales, hoppers and silos in loading plants for ports and terotechnology.



● **Technical data (limit values)**

Accuracy:

Resolution:	-999...+9999 digit
Measuring fault:	±0,2% of measuring range, ±1 digit
Temperature drift:	100 ppm/K
Measuring principle:	ramp conversion

Indication

Display:	7 segments, 14 mm high, red, 4 digits
Overflow/Underflow:	to HI / to LO
Time of indication:	0,1 s - 1 s - 10 s (adjustable)
Memory:	minimum / maximum values

Output

Limit contacts

2 relays:	changeover contact Resistive load: peak switching current: 30 VDC 1 A / 125 VAC 0,3 A peak switching power: 30 W / 37,5 VA peak switching voltage: 110 VDC / 125 VAC peak switching current: 1 A
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Indication:	2 LED each contact limit value reached: LED red limit value not reached: LED green
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Adjustment: limit value, hysteresis value and delay times with 3 keys

Fai-safe function: voltage supply "ON" = contacts active

Interface:

Digital: RS232

Programmable features

range of indication / time of indication / decimal point / (unit (°C/°F)) / stabilisation zero point / limit value 1 / hysteresis value 1 / delay times 1 / limit value 2 / hysteresis value 2 / delay times 2 / locking of programming / calibration points / TAG number

Possibilities of indication

Programming the decimal point and unit the following scope of representation is possible:

xxxx / xxx.x / xx.xx / x.xxx / xxx°C / xxx°F

● **Technical data (general)**

Supply

Voltage:	24 VDC
Short circuit-proof:	permanent
Reverse battery protection:	yes (no destruction, no function)
Overvoltage protection:	yes (spikes)

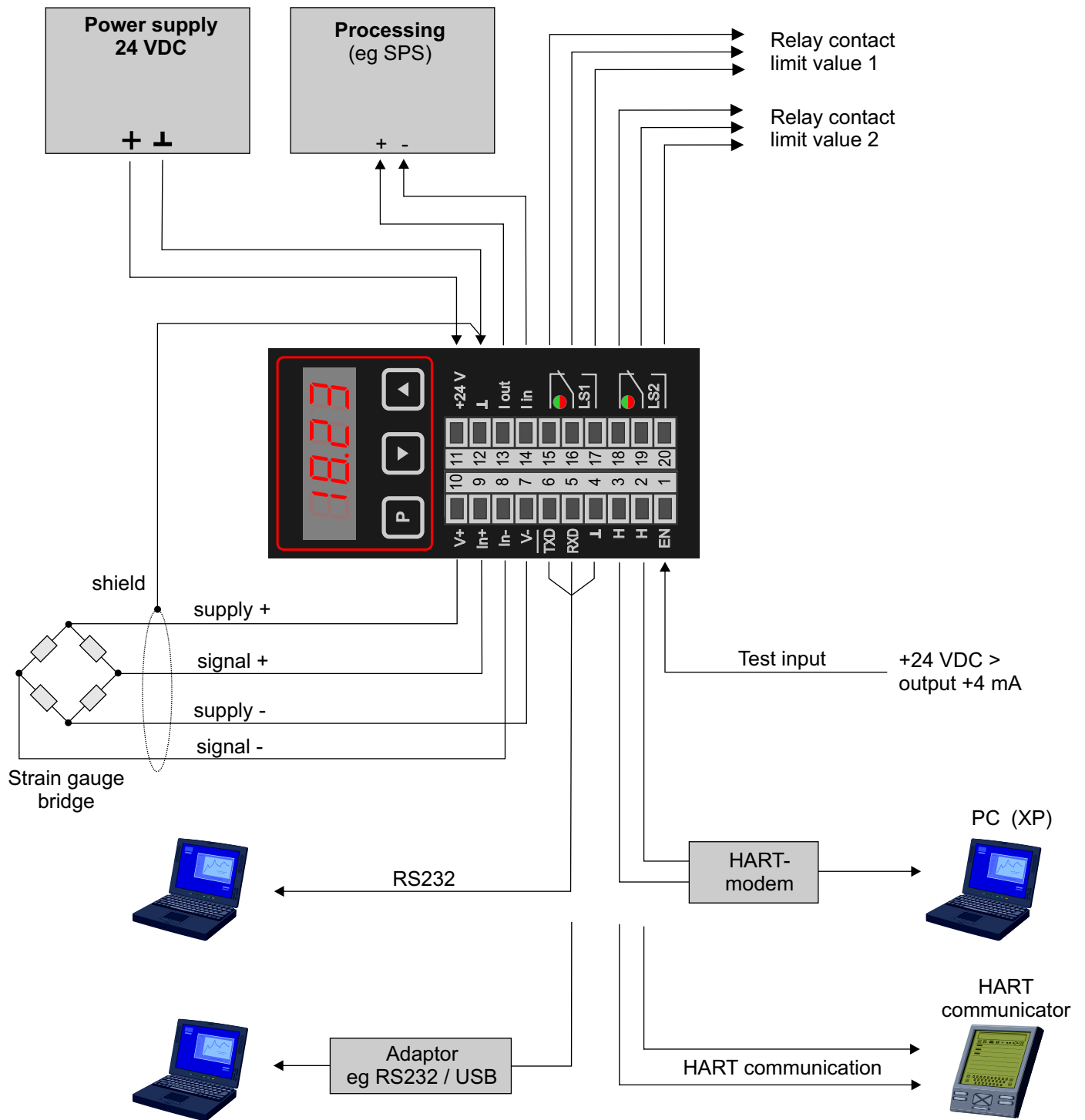
Ambient conditions

Operation temperature:	0...60°C
Ambient temperature:	0...60°C
Storing temperature:	-20...+80°C
Standards:	IEC 61000-4-3 / IEC 61000-6-2 / IEC 61000-6-4

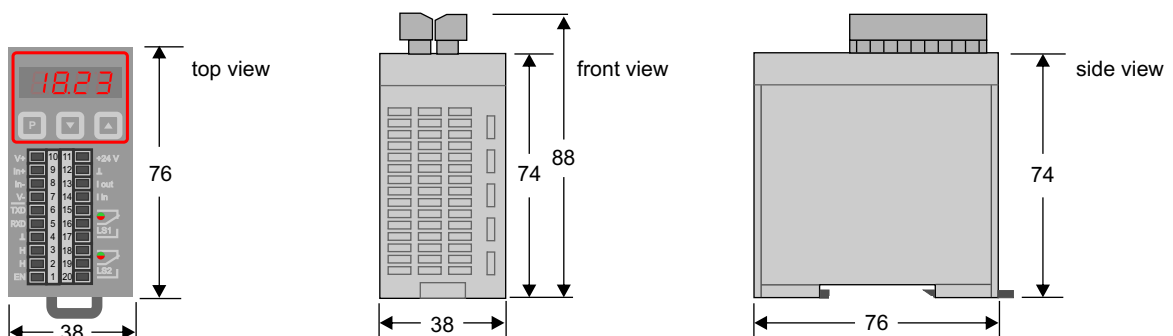
Mechanics

Enclosure:	plastics PA6
Dimension:	W38 x D76 x H74
Mounting:	top hat rail
Colour:	black
Protection:	degree IP 20
Weight:	approx. 100 g
Connection:	2x 10-pole pin and socket connector, up to 1,5 mm ²

● Connection



● Dimensions (in mm)



● **Ordering code**

D G X X X X X X - X X X

Input:	0,3...5 mV/V	0										
Output:	4...20 mA	0										
Supply:	24 VDC	0										
Enclosure:	plastics, mounting on top hat rail	0										
Configuration:	factory configuration ¹⁾								0			
	customized settings (please indicate) ²⁾								1			
Other / accessories:	special model											0
	HART interface, USB, software											1
	Sub-D cable set and software for programming											2

● **Configuration**

1) When the amplifier is ordered with factory configuration, the device has the following settings:

Strain gauge amplifier:

- Input sensitivity: 2 mV/V
- Output span: 20,000 mA
- Calibration points: 2
- Self stability: without
- Fixed output: without
- Address: without
- Output zero: 4,000 mA
- Zero offset compensation: without
- Damping: without
- Output on error: 3,6 mA
- Filter function: without
- TAG number: without

Limit value contacts:

- Range of indication: 4,00...20,00
- Decimal point: x.xx
- Stabilisation zero point: 2
- Hysteresis value 1: 11 mA / delay time: 1 s
- Hysteresis value 2: 16 mA / delay time: 1 s
- Calibration points: without
- Refresh display: 1 s
- Unit: without
- Limit value 1: 10 mA / delay time: 0 s
- Limit value 2: 17 mA / delay time: 0 s
- Locking of programming: without
- TAG number: 0

2) When the amplifier is ordered with customized configuration, the possibilities of the technical data of this data sheet can be chosen for the settings of the device.