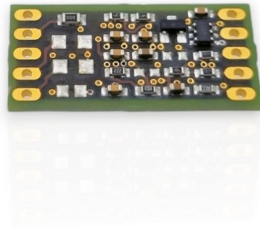


Measuring amplifier GSV-14L

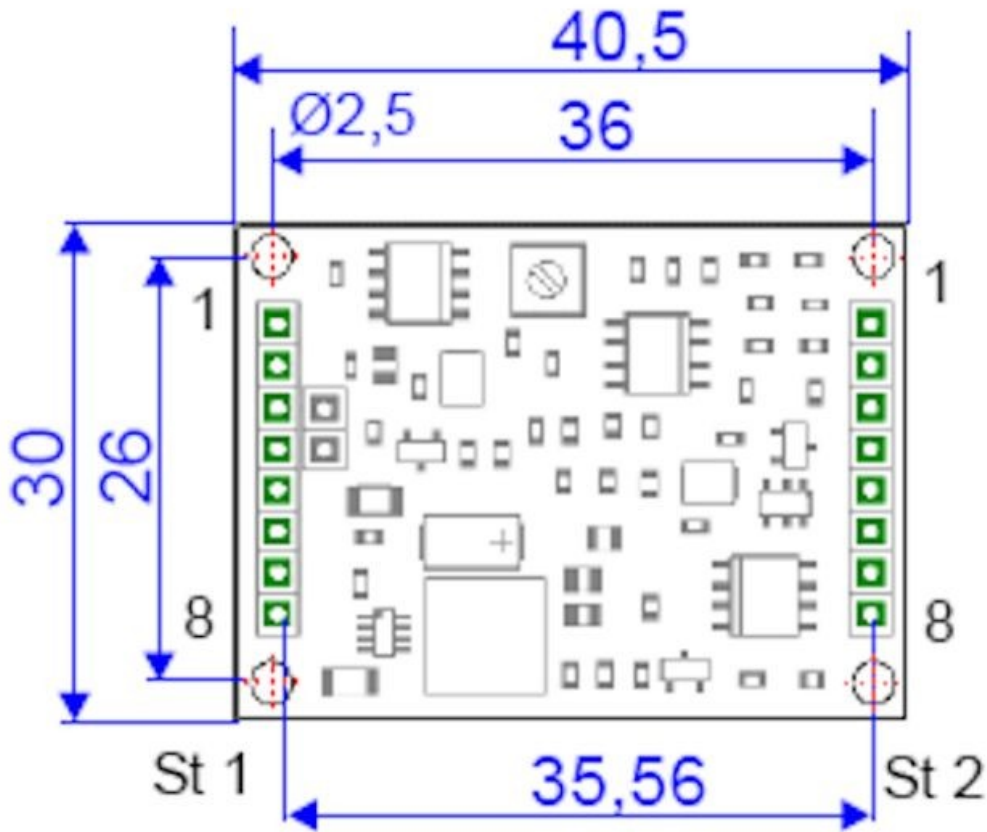
Item number: 1005157



Highlights

- ideal for IoT / LoRaWAN / battery operation
Operating voltage 3.4 V ... 10 V
Current consumption 9 mA with 350 Ohm DMS
Digital input ShutDown
Digital output "Error" if the minimum operating voltage is not reached

Technical Drawing



Technical Data

Basic Data		Unit
Dimensions	30 mm x 40,5 mm x 6,5 mm	
Housing	Circuit board	
Connection	Soldering connection	
Number of channels	1-channel	
Input analog		Unit
Input sensitivity-steps	2.0	mV/V
Output analog		Unit
Number of analog outputs	1	
Output resistance - voltage output	47	Ohm
Accuracy data		Unit
Accuracy class	0,1%	
Relative linearity error	0.02	%FS
Temperature effect on the zero point	0.2	%FS/10°C
Temperature effect on the measuring sensitivity	0.1	%RD/10°C
Measuring frequency		Unit
Supply		Unit
Supply voltage from	10	V
Supply voltage to	28	V
Strain gauge bridge supply	5	V

Interface	Unit
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Zero Adjustment	Unit
Tolerance	5 mV
Time period	90 ms
Debouncing time	4 ms
Trigger level from	3.5 V
Trigger level to	30 V
Trigger edge	falling

Environmental Data	Unit
Rated temperature range from	-10 °C
Rated temperature range to	65 °C
Operating temperature range from	-40 °C
Operating temperature range to	85 °C

Mounting

Pin configuration

St 1		St 2	
1	-UD : negative differential input	1	+UB : voltage supply
2	+UD : positive differential input	2	GND : mass
3	+US : positive	3	assigned

	bridge supply		internally
4	-US : negative bridge supply (GND)	4	assigned internally
5	GND : mass	5	assigned internally
6	+UA : Analog output	6	assigned internally
7	+UB : voltage supply	7	assigned internally
8	T: control input zero balance	8	T: control input zero balance