PERFORMANCE MADE SMARTER



mV transmitter

2261

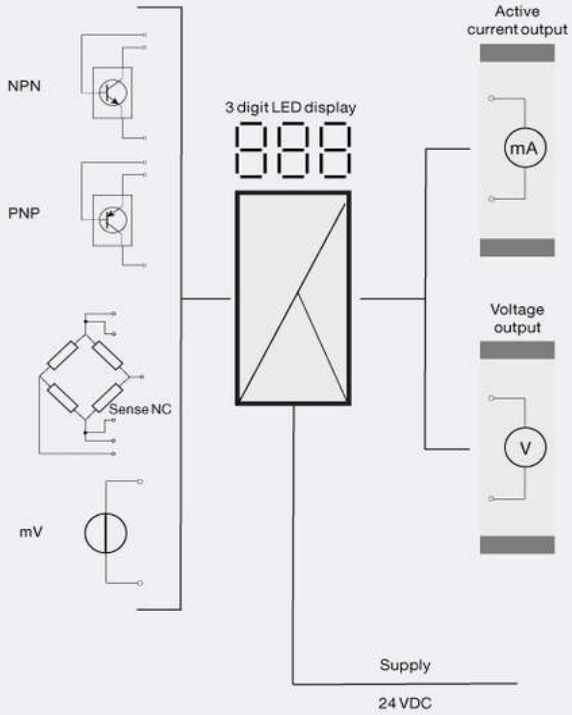
- Load cell amplifier
- mV to current / voltage conversion
- Front-programmable / LED display
- Relative calibration of input span
- NPN / PNP input for external taring
- Supply for standard transducers

Advanced features
- A multifunction user interface consisting of three pushbuttons and a 3-digit LED display for programming.

Application
- The 2261 converts bipolar mV signals from transducers supplied directly by the device to standard current / voltage signals.
- The 2261 is suitable for load cell application as well as other applications such as tank filling and draining, weighing with a taring function, measurement of cable tensile force, level control, signal conversion / amplification etc.

Technical characteristics
- Front error LED.
- The analog input can be programmed for voltage in the range -40...100 mVDC.
- The digital signal can be selected as either NPN or PNP.
- Taring can either be by way of the digital input or from the front interface.
- The analog output can be programmed to current in the range 0...20 mA or voltage in the range 0...10 VDC.
- Transducer supply which can be programmed to 5...13 VDC from the front. It is up to the customer to ensure a max. load of 230 mA (e.g. 6 parallel 350 Ω load cells).
- Sense input (with transducer supply used) for compensation for cable resistance to the transducer.
- Mounting for a standard 11-pole socket which can be adapted for DIN rail or plate use with PR's 7023 adaptor and 7024 mounting keying.

Applications



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Order:

Type
2261

Environmental Conditions

Operating temperature	-20°C to +60°C
Calibration temperature	20...28°C
Relative humidity	< 95% RH (non-cond.)
Protection degree	IP50

Mechanical specifications

Dimensions (HxWxD)	80.5 x 35.5 x 84.5 mm (D is without pins)
Weight approx.	130 g

Common specifications

Supply

Supply voltage	19.2...28.8 VDC
Max. required power	7.2 W
Internal power dissipation	2.2 W

Response time

Response time (programmable)	0.06...999 s
Signal / noise ratio	Min. 60 dB
Updating time	20 ms
Signal dynamics, input	17 bit
Signal dynamics, output	16 bit
Effect of supply voltage change	< ±0.002% of span / %V
Temperature coefficient	< ±0.01% of span / °C
Linearity error	< 0.1% of span
Auxiliary voltage: Transducer supply	5...13 VDC
Load (max.)	230 mA
EMC immunity influence	< ±0.5% of span

Input specifications

Common input specifications

Max. offset	70% of selec. max. value

Voltage input

Measurement range	-40...100 mV
Min. measurement range (span)	10 mV
Input resistance	> 10 MΩ
Overrange	0...999% of selected measurement range
NPN, digital input	Pull up 24 VDC / 6.9 mA
PNP, digital input	Pull down 0 VDC / 6.9 mA
Trig level low, NPN/PNP	< 6 VDC
Trig level high, NPN/PNP	> 10.5 VDC
Pulse length	> 30 ms

Output specifications

Current output

Signal range	0...20 mA
Min. signal range	5 mA
Load (@ current output)	≤ 600 Ω
Load stability	≤ 0.01% of span / 100 Ω
Current limit	< 23 mA
Voltage output through internal shunt	See manual for details
of span	= of the presently selected range

Observed authority requirements

EMC	2014/30/EU
EAC	TR-CU 020/2011