



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.

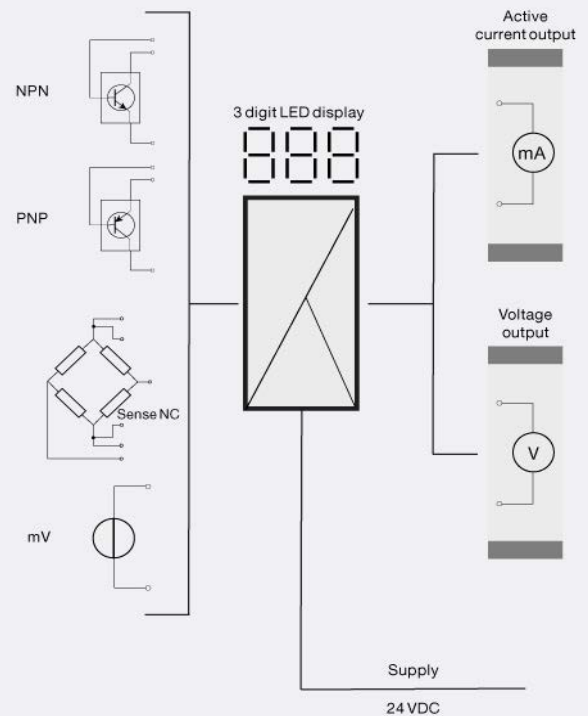
Application

- 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.
- Short circuit protected transducer supply which can be programmed to 5...13 VDC from the front.
- 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.

Connections



Order:

Type
2261

Environmental Conditions

Specifications range.....	-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 voltage.....	19.2...28.8 VDC
Max. power consumption.....	7.2 W
Internal consumption.....	2.2 W
Signal / noise ratio.....	Min. 60 dB
Response time (programmable).....	0.06...999 s
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

Max. offset.....	70% of selec. max. value
Voltage input: Measurement range.....	-40...100 mV
Min. measurement range (span), voltage input.....	10 mV
Input resistance, voltage input.....	> 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

Max. offset.....	50% of selected max. value
Current output: Signal range.....	0...20 mA
Min. signal range.....	5 mA
Load (max.).....	20 mA/600 Ω/12 VDC
Load stability, current output.....	≤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

Approvals

EMC.....	EN 61326-1
EAC TR-CU 020/2011.....	EN 61326-1

Whilst every effort has been made to ensure the accuracy of this specification, we cannot accept responsibility for damage, injury, loss or expense from errors or omissions. In the interest of technical improvement, this specification may be altered without notice.

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