



## Integrated 4-20 mA Signal out

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### Pressure gauges and thermometers with 4-20 mA signal out

- Unique solution for local and remote reading in one instrument
- One process connection only
- For reliable signal out
- Vibration proof
- For dry and liquid filled instruments
- No measurement errors owing to use of two separate instruments
- Direct mounted or with diaphragm seal

#### Application

This unique integrated solution supplies local and remote reading in one instrument, which means that only one process connection is needed.

Almost all types of **TEMPRESS** pressure gauges and thermometers can be delivered with a 4-20 mA signal out. This signal out can be used to trigger alarm functions or simple actuating controls.

The 4-20 mA Signal is supplied by an in-built angular position transmitter which transforms the reading of the pointer to an electronic signal ensuring the same reading for local and remote display.

The angular position transmitter is based on an optoelectrical principle which guarantees a high degree of operational reliability and stable output signals, even during difficult operating conditions.

By accidental electronic shut-down, the signal from the position transmitter will immediately show the true value when re-established.

The angular position transmitter is also available as EX version.

Electronic specifications	
Supply voltage	2-wire 14-30 V DC
Power consumption	<38 mA
Output signal	4-20 mA
Load resistance, $R_L$	0-800 Ohm
Residual voltage on output signal	<10mVs
Linear deviation	<1% (optional: <0.5%)
Reproducibility	<0.1%
Maximum angular velocity	2000°/sec.
Vibration resistance	10 G, 100-2000 Hz, 3-axis
Shock resistance	100 G, 6-axis
EMC tested	Acc. to IEC 801-2/-3/-4 and 5

Agent/Dealer:



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