KROHNE

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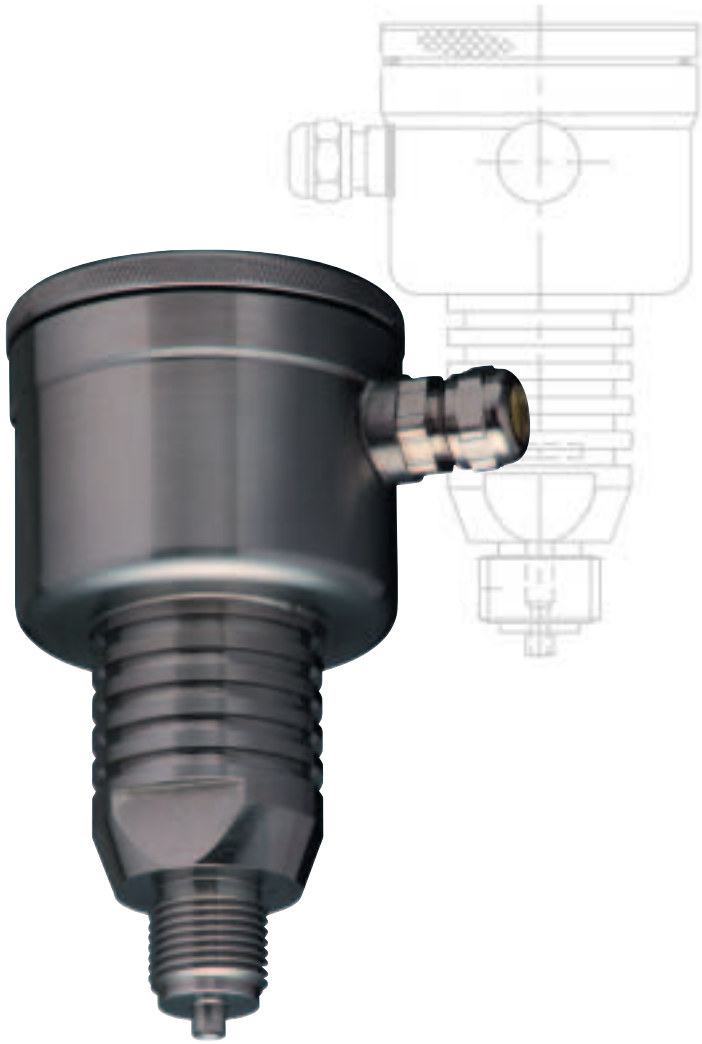
Electronic pressure transmitters

CER 8000



Subject to change without notice.

Electronics pressure transmitters

CER 8000

- "All stainless" transmitter
- Ceramic pressure cell
- Accuracy 0.2% (adjusted span)
- Output 4 ... 20 mA / 2-wire
- Zero/span internally adjustable
- No oil filling
- Withstand full vacuum
- Very high overpressures
- Local indicator available
- Intrinsically safe EEx ia IIC T4

Description

The **CER 800** is a solid-state, all stainless, pressure transmitter based on a ceramic pressure cell.

The amplifier system is based on a single integrated circuit, which ensures a perfect linearity in the 4 ... 20 mA output, also the transmitter is fully temperature compensated on process temperatures.

The **CER 800** has the latest state of the art planar technology which results in a very compact construction, it is made for pressure applications in liquids, gases and vapours.

Zero and span are internally adjustable in wide ranges.

A local indicator is available (option).

The responsibility as to the suitability, intended use and corrosion-resistance of the materials used in their construction rests solely with the purchaser.

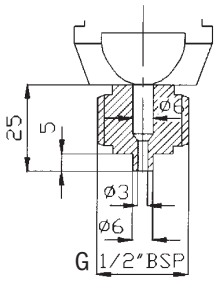
Specifications

Measuring ranges	: 0-0.2 ... 350 bar
Output signal	: 2-wire, 4 ... 20 mA
Overall accuracy	: ± 0.2% adjusted span
Power supply	: 12 ... 40 VDC
Electrical connection	: PG9 / $^1/_2$" NPT or M20
Load (max.)	: 600 Ohm/24 V ... 1400 Ohm/40V
Protection category	: IP 67
Weight	: 0.6 kg
Overpressure	: see ordering information
Process temperature	: standard -20°C ... +100°C ($^1/_2$" hour 130°C)
Temperature effect	: ± 0,015%/K adjusted span

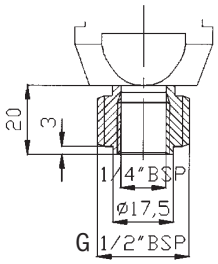
Housing temperature	: -20°C ... +70°C
Storage temperature	: -30°C ... +70°C
Adjustment	: zero and span internally
Process connections	: see ordering information
Wetted parts measuring cell	: ceramic (aluminium oxide 96%)
Sensor sealing	: standard viton O-ring (other materials on request)
Other wetted parts standard	: AISI 316
Material housing	: AISI 304
Zero elevation/suppression available	
Vacuum and compound ranges available, please specify	
Specifications can change without notice	

Process connections

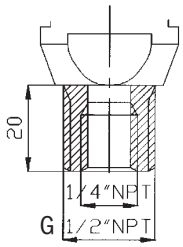
Code R



Code S



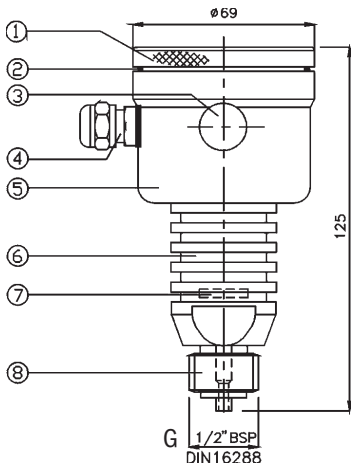
Code N



Parts description:

1 Cover	AISI 304	5 Electronic housing	AISI 304
2 O-ring	EPDM	6 Food/cooling fins	AISI 316
3 PG Cable connector		7 Ceramic sensor	Al_2O_2 (96%)
4 Venting (cover)	AISI 304	8 Process connection	AISI 316

Dimensions (mm)



Ordering Code

Order code key		Series CER-8000 -						
measuring range bar	overpressure max. bar	adjustable span range bar min. - max.	↑					
0 – 0.2 ...0.5	4	0 – 0.2 ... 0 – 0.5	B					
0 – 0.2 ...0.8	6	0 – 0.2 ... 0 – 0.8	C					
0 – 0.8 ...1.6	12	0 – 0.8 ... 0 – 1.6	D					
0 – 1.6 ...4	20	0 – 1.6 ... 0 – 4	E					
0 – 2.5 ...10	50	0 – 2.5 ... 0 – 10	F					
0 – 10 ...40	120	0 – 10 ... 0 – 40	G					
0 – 40 ...150	350	0 – 40 ... 0 – 150	H					
0 – 100...350	600	0 – 100 ... 0 – 350	I					
Process Connection:								
– G $^1/_2$" ($^1/_2$" BSP) DIN 16288 manometer (gauge) connetion				R				
– G $^1/_2$" (male) and G $^1/_4$" (female)				S				
– $^1/_2$" NPT (male) and $^1/_4$" (female)				N				
Optional:								
– Digital local indicator (3 $^1/_2$ digit, programmable) (EEx i, not programmable)					I			
– Intrinsically safe: ATEX II 1G EEx ia IIC T4						Ex		
– Vacuum range (Specify relative or absolute). Compound range available (example -1 / +1 bar)							V	
P / I converter: 3 ... 15 PSI = 4 ... 20 mA. Incl. wall mounting bracket. Always range D								P/I
Specials: please specify (example: PTFE or Hastelloy C wetted parts)								G