

The pressure transmitter model E30 combines modern electronic with a silicon diaphragm sensor. Its very compact design is suitable for non corrosive fluids. They are suitable in building management systems, air conditioning, drinking water, non-corrosive oils, air compression etc.

- **ECONOMIC OEM PRESSURE TRANSMITTER**
- **CUSTOMIZED DESIGNS**
- **COMPACT SHAPE**
- **PROCESS TEMPERATURE  $-25^{\circ}\text{C} \dots +85^{\circ}\text{C}$**
- **GLOBAL ERROR  $\pm 1\%$  FS**
- **RANGES 100 MBAR TO 35 BAR G**



## Specifications (25°C)

### Pressure Ranges :

0... 100 mbar to 35 bar  
-100 mbar...0.....+24 bar

### Output signal / supply voltage:

**E33:** 4 – 20 mA, 2 – wire      12...30 Vdc  
**E34:** 0 – 10 Vdc, 3 – wire      12...30 Vdc  
**E35:** 0 – 5 Vdc, 3 – wire      on request  
**E36:** 0 – 20 mA, 3 – wire      on request  
**E37:** 0,5 – 4,5V, 3 – wire      on request  
**E38:** 0,5 – 4,5V, 3 – wire (ratiomet.) on request

### Insulation:

> 100 MΩ at 50 Vdc

### Load impedance (+ M /- M) :

**E37:**  $\geq 2,5 \text{ k}\Omega$     **E36:**  $(U - 9) / 28 = \text{k}\Omega$   
**E35:**  $\geq 2,5 \text{ k}\Omega$     **E34:**  $\geq 5,0 \text{ k}\Omega$   
**E33:**  $(U - 12) / 20 = \text{k}\Omega$

### CE conformity – electromagnetic compatibility:

Emission to DIN EN 55011: < 30 dBμV/m  
 Immunity to DIN EN 61000-4-3: 25 V / m

### Global Error (linearity, hysteresis, repeatability) :

<  $\pm 1\%$  FS (BFSL)  
 optional +/- 0.5 % FS (BFSL)

### Protection rating to DIN 40 050:

IP65 with electric connectors  
 others on request

### Temperature limits :

ambient:                      - 25...+ 85 °C  
 fluid:                         - 25...+ 85 °C  
 storage:                      - 25...+ 85 °C

### Compensated temperature range :

- 20...+ 80 °C (zero and span)

### Temperature coefficient (zero and span):

typically:                      0,015 % / K F.S.  
 max:                            0,025 % / K F.S.

### Wetted parts :

brass, Viton®, silicon  
 stainless steel, Viton®, silicon

### Case material:

brass or stainless steel

### Pressure port :

standard: G ¼ to DIN 3852  
 optional: ¼ NPT, 1/8 NPT, 7/16-20 UNF.....

### Electric connection :

standard: plug to DIN 43650 – A  
 optional: Packard, cable, M12 etc.

### Response time (10...90% v. ME.) : < 1 ms

### Vibration resistance :

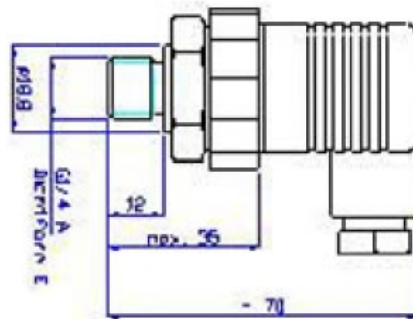
to IEC 68-2-6 and IEC 68-2-32: 20 g

### Shock resistance:

according IEC 68-2-32: 1 m free fall on steel floor

modifications reserved without prior notice

## Dimensions in mm with DIN 43650 – A connector



weight approx 45 g  
 case Ø 27 mm  
 hex 27 mm

Codification	□	-	□	-	□	-	□	-	□	-	□	-	□
<b>Family</b>													
Brass (standard)	E												
Stainless St.	S												
<b>Output signal</b>													
4...20 mA											33		
0...10 V											34		
0...5 V (1)											35		
0...20 mA (1)											36		
0,5..4,5 V (1)											37		
ratiometric (1)											38		
<b>Pressure port</b>													
G 1/4 DIN3852											2		
G 1/2 with adapter											3		
1/8 NPT a											4		
1/4 NPT a											5		
1/4 PT (R1/4)											6		
7/16-20 UNF a											8		
<b>Electric connection</b>													
Packard Metripack											5		
1 m cable											2		
M12, 4-polig											3		
DIN 43650 - A (large)											4		
<b>Engineering units</b>													
bar													B
kg/cm <sup>2</sup>													F
kPa													D
psi													H
<b>Pressure Range</b>													
see adjacent table													
<b>Pressure type</b>													
gauge													R
<b>Optional global error 0.5% FS (BFSL)</b>													
													0.5

## pressure ranges and codes

code	bar	code	psi
54R	-0,1 / 0	54R	-1.5 / 0
55R	-0,16 / 0	55R	-2.5 / 0
56R	-0,25 / 0	56R	-4 / 0
57R	-0,4 / 0	57R	-6 / 0
58R	-0,6 / 0	58R	-10 / 0
65R*	-40/+60	65R	-0.6 / +1
66R*	-60/+100	66R	-1 / +1
67R*	-100/+160	67R	-2 / +2
69R*	-250/+400	69R	-4 / +4
59R	-1 / 0	59R	-30"Hg / 0
70R	-0,4 / +0,6	70R	-6 / +10
71R	-0,6 / +0,4	71R	-10 / +6
72R	-1 / +0,6	72R	-30"Hg / +10
74R	-1 / +1,5	74R	-30"Hg / +20
76R	-1 / +3	76R	-30"Hg / +40
08R	0 / 0,1	08R	0 / 1,5
09R	0 / 0,16	09R	0 / 2,5
10R	0 / 0,25	10R	0 / 3,0
11R	0 / 0,4	15R	0 / 15
12R	0 / 0,6	16R	0 / 25
15R	0 / 1	17R	0 / 30
16R	0 / 1,6	18R	0 / 50
18R	0 / 2,5	19R	0 / 60
19R	0 / 4	20R	0 / 100
20R	0 / 6	21R	0 / 150
22R	0 / 10	22R	0 / 200
24R	0 / 16	23R	0 / 250
26R	0 / 25	24R	0 / 300
25R	0 / 35	25R	0 / 500

R=gauge pressure, overload 1,5 x; burst 3 x  
 (\*) mbar

(1) on request

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