

**All st. steel pressure transmitters
with flush diaphragm
accuracy $\leq \pm 0.5\%$ EDN.625
accuracy $\leq \pm 0.25\%$ EDN.623
accuracy $\leq \pm 0.1\%$ EDN.621**

All st. steel housing & wetted parts
st. steel piezoresistive silicon pressure sensors
Flameproof explosion version in Hazardous area
Certified by KOSHA, Ex d IIC T6



General features

- Specially designed for the measurement in Hazardous area
- Pressure range from -1...0 bar to 0...250 bar
- Explosion-proof Ex d IIC T6
- Ingress protection IP 65
- Housing parts of stainless steel 316L
- Flameproof explosion, KOSHA certified

Application area

- Hazardous area for pressure measurement
- Refineries and petrochemical industry
- Oxygen supplying station
- Gas compressors

General specification

Pressure ranges

-1...0 bar & 0... 200 mbar to 0...250 bar
Other pressure ranges on request

Accuracy

included Linearity+Hysteresis+Repeatability

EDN.625: accuracy $\pm 0.5\%$ FS
EDN.623: accuracy $\pm 0.25\%$ FS
EDN.621: accuracy $\pm 0.1\%$ FS
Less 200 mbar of gain, it could be accuracy
max. $\geq 0.1\%$.

Overpressure 1.3 x pressure range

Output signal

4...20mA, 2-wire system
0...10V, 3-wire system
0...5V, 3-wire system
1...5V, 3-wire system

Temperature range

Operating: -20...100
-40...125 °C / option
Ambient: -20...100 °C
Storage: -40...120 °C
Temperature compensating range: 0...50 °C

Thermal error

Zero thermal error: $\pm 0.75\%$ FS @ 25 °C (typ.)
Span thermal error: $\pm 0.75\%$ FS @ 25 °C (typ.)



Pressure transmitter series EDN.620

Power supply

Available power: DC 12...30V

Response time

$\leq 5\text{ms}$

Isolation

$> 100\text{M}\Omega$ at 100 VDC

Materials

Wetted parts: st. steel 316L
Measurement cell: st. steel 316L
O-ring: FKM
Body: st. steel 304

Electrical connecting cable gland

Flameproof explosion certified

Pressure connection

G1/2" A DIN EN ISO 1179-2
others on request

Protection

IP 65

Weight

approx. 980g



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Technical data

Input pressure range

Normal pressure:

-1...0 bar & 0...200 mbar to 0...250 bar

Permissible static pressure:

1.3 x pressure range, max.300 bar

Output signal / Supply

Current: 2-wire 4...20mA $V_s=12...30$ VDC

Voltage: 3-wire 0...10V $V_s=12...30$ VDC
0...5V
1...5V
0.5...4.5V

Performance

Accuracy: $\leq \pm 0.35\%$ FSO @ 25°C

¹ accuracy according to IEC 60770 - limit point adjustment including non-linearity, hysteresis as well as repeatability

Permissible load / R_L

Current: 2-wire, $R_L \max = [(V_s - V_s \min) / 0.02A] \Omega$

Voltage: 3-wire, $R_L \min = 10k\Omega$

Influence effects:

Supply: 0.05%FSO/10V

Longterm stability: $\leq \pm 0.5\%$ FS / year

Response time: <5ms

Thermal effects (Offset and Span)

/ Permissible temperatures

FS thermal error: $\pm 0.75\%$ FS @ 25°C, typical

Zero thermal error: $\pm 0.75\%$ FS @ 25°C, typical

Operating temperature: -20...100°C

-40...125°C/option

Compensated temperature: 0...70°C

Electrical protection

Electromagnetic compatibility:

Emission and immunity according to

EN 61326-2-3:2013 CCISPR II Group 1, Class A

EN 61326-2-3:2013 DC 12...30V

Insulation: the transmitter is grounded via the process connection

Mechanical stability

Vibration: No change at 10 g RMS (20...2000) Hz

Shock: 0.1 g (1m/s) Max.

Materials

Pressure port: Stainless steel 316L

Housing / body: Stainless steel 304

Sensor diaphragm: Stainless steel 316L

Wetted parts: Stainless steel 316L

Miscellaneous

Current consumption

Signal output current max. 25mA

Current

4...20mA, 2-wire system

Signal output voltage max. 7mA

Voltage:

0...10V, 3-wire system

0...5V, 3-wire system

1...5V, 3-wire system

0.5...4.5V / 12...30V, 3-wire system

Ingress protection: IP65

EMC Test report for CE conformance

■ EN 61326-2-3:2013 CCISPR II Group 1, Class A

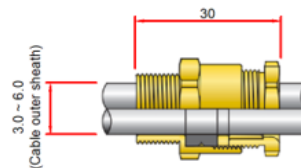
■ EN 61326-2-3: 2013 / IEC 61326-1:2012

Electrical connecting cable gland

■ IP66

■ Materials: Brass with nickel plated

■ Cable outer : 3.0...6.0 mm



Ordering information

Model code

EDN.62X · · · · · B ·

Accuracy

5	≤ 0.5 % F.S
3	≤ 0.25 % F.S
1	≤ 0.1 % F.S

Output signal

O1	4...20mA / 2-wire system
O2	0...10V / 3-wire system
O3	0...5V / 3-wire system
O4	1...5V / 3-wire system
O6	0.5...4.5V / 3-wire system

Electrical connection

FP	Flameproof conn. cable gland
M	M12 electrical plug

Process connection

G2	G 1/2", flush diaphragm
	others on request

Pressure range code, unit bar

Code	Range
R19	-1...0
R23	0...1
R26	0...1.6
R28	0...2.5
R30	0...4
R32	0...6
R33	0...10
R35	0...16
R37	0...25
R39	0...40
R41	0...60
R43	0...100
R45	0...160
R47	0...250
RYY	Others on request

Option code

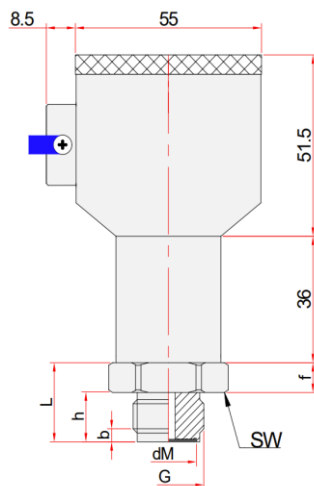
Code	Description
T4	-40...125 °C / operating temperature
RS	Restrictor screw in socket hole
NO	"USE NO OIL" for Oxygen application
PCA	Adapter
TP	St. steel tag plate, 60 x 20 x 0.5t
DMCC	Manufacture calibration certificate
KC	KOLAS Ilac-MRA calibration certificate
CC	Certificate of conformance / origin

How to order

EDN.625.O1.A5.FP.G2.BR33

EDN.625, 0.5%, 4...20mA, A5, Flameproof conn. cable gland, G 1/2", 0...10 bar

Pressure Transmitters with flush diaphragm

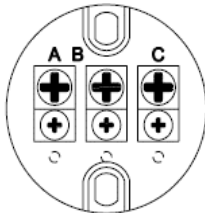


■ Flush Diaphragm

DIN 3852

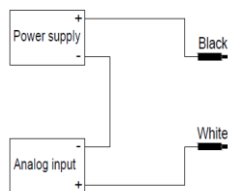
G	dM	f	b	SW	h	L
G1/2"	18	12	2.5	32	14	26

Pin assignment

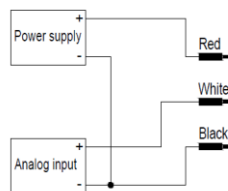


Pin No.	Current output	Voltage output
A	+Vcc	+Vcc
B	Output	GND
C		Output

Wiring



2-wire / current, 4...20mA



3-wire / voltage, 0...10V, 0...5V, 1...5V

	2-Wire	3-Wire
White	Output(mA)	Output(VDC)
Red		+Vcc
Black	+Vcc	GND

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