

Pressure Transmitters with Zero/Span Adjustment on Top Position series EDA.370



All wetted parts & housing are made of st. steel.
Zero & Span Adjustment function.
with Declaration of Conformity, CE

General features

- Pressure range from -1...0 bar to 0...1000 bar
- Wetted & housing parts of stainless steel
- Specially, designed for BOU of train industry
- Zero & Span Adjustment function on top
- CE certified, declaration of conformity
- High isolation grade with EMC & EMI test.

Application area

- Brake Operating Units of train & subway
- Hydraulic and pneumatic control systems.
- Monitorin of high quaified control system
- Pressure checking system

General specification

Pressure ranges

-1...0 bar to 0...1000 bar

Accuracy

included Linearity+Hysteresis+Repeatability

A4: $\pm 0.5\%$ FS

A7: $\pm 0.25\%$ FS

A9: $\pm 0.1\%$ FS

Overpressure

1.3 X pressure range

Output signal

4...20mA, 2-wire system *[under construction]*

0...10V, 3-wire system

0...5V, 3-wire system

1...5V, 3-wire system

Power supply

Available power: DC 12...30V

Response time: $\leq 5\text{ms}$

Isolation $> 2000\text{M}\Omega$ at 500 VDC

Materials of

Wetted parts: St. steel 316L
Sensor sealing: NBR / standard

Viton / option
EPDM / option

Body: St. steel 304



Pressure transmitter series EDA.370

Temperature range

Compensated temperature range: $-10^{\circ}\text{C} \dots +80^{\circ}\text{C}$

Operating: $-40 \dots +125^{\circ}\text{C}$

Ambient: $-20 \dots +85^{\circ}\text{C}$

Storage: $-40 \dots +125^{\circ}\text{C}$

Thermal error

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

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

Electrical connection & protection

DIN43650 A

IP65

Pressure connection

G 1/4", DIN 3852-E with sealing by DIN 3869 ring seals

G 3/8"

G 1/2"

R 1/4"

R 3/8"

R 1/2"

Weight

Approx. 140g

Options

High temperature adapter
up to 200°C / up to 300°C



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Technical specifications

Input pressure range

Nominal pressure:
-1...0 bar up to 0...1000 bar

Permissible static pressure:
1.3 x pressure range, max.1100 bar

Output signal / Supply

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

Voltage:
3-wire 0...10V Vs=12...30 VDC
0...5V
1...5V

Performance

¹Accuracy: $\leq \pm 0.25\% \text{FSO @ } 25^\circ\text{C}$
 $\leq \pm 0.25\% \text{FSO @ } 25^\circ\text{C}$
 $\leq \pm 0.1\% \text{FSO @ } 25^\circ\text{C}$
¹ accuracy according to IEC 60770 - limit point adjustment
including non-linearity, hysteresis as well as repeatability

Permissible load / R_L
Current: 2-wire, $R_L \text{ max} = [(V_s - V_s \text{ min}) / 0.02 \text{ A}] \Omega$
Voltage: 3-wire, $R_L \text{ min} = 10 \text{ k}\Omega$

Influence effects:
Supply: 0.05%FSO/10V
Longterm stability: $\leq \pm 0.5\% \text{FS} / \text{year}$
Response time: <5ms

Thermal effects (Offset and Span) / Permissible temperatures

FS thermal error: $\pm 0.75\% \text{FS @ } 25^\circ\text{C}$, typical
Zero thermal error: $\pm 0.75\% \text{FS @ } 25^\circ\text{C}$, typical
Operating temperature: -20...80 °C
-40...+125 °C / option
Compensated temperature: -10...70 °C

Electrical protection

Electromagnetic compatibility:
Emission and immunity according to
EN 61326-2-3:20B CCISPR II Group 1, Class A
EN IEC 61000-3-2:2019

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

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, 0...5V, 1...5V, 3-wire system

Weather protection grade

■ Ingress protection: IP65 with electrical plug

EMC Test report for CE conformance

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

Ordering information

Model code

EDA.370 · [] · [] · [] · [] · B [] · []

Accuracy

A4	≤ 0.5 % F.S
A7	≤ 0.25 % F.S
A9	≤ 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

Electrical connection

D	DIN 43650 A
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Process connection

G2	G 1/2" (PF 1/2")
G3	G 3/8" (PF 3/8")
G4	G 1/4" (PF 1/4")
R2	R 1/2" (BSPT 1/2")
R3	R 3/8" (BSPT 3/8")
R4	R 1/4" (BSPT 1/4")

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
R50	0...400
R53	0...600
R55	0...1000
RYY	Others on request

Option code

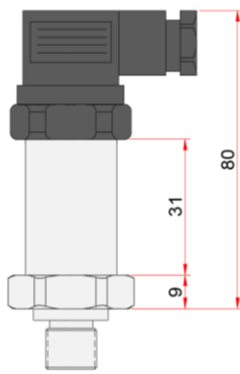
Code	Description
PAA	absolute pressure range [5...6 weeks delivery]
xL	x m cable exstension (예: 5L = 5 m, 3L = 3 m)
T4	-40...+125 °C
AC25	Restrictor screw in socket hole
TP	St. steel tag plate, 60 x 20 x 0.5t
DMCC	Manufacture calibration certificate
KC	KOLAS Ilac-MRA calibration certificate

How to order

EDA.370.O1.P.G4.BR35

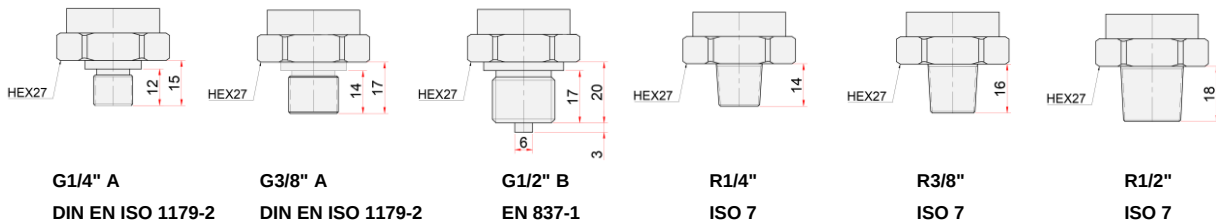
EDA.370, 4...20mA, mPm plug, G 1/4", 0...16 bar

Outline drawing

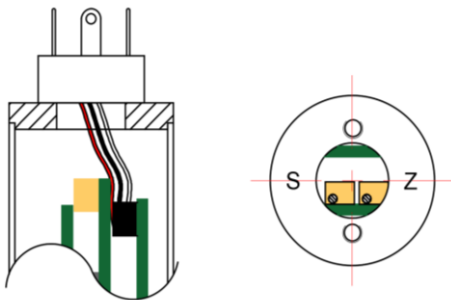


Electrical plug
DIN 43650A type
/ IP65

Process connection



Zero & Span Adjustment function



zero & span adjustment의 조정위치

Pin assignment

DIN 43650A connector according to DIN EN 175301-803A

