

**Pressure Transmitters
with Zero/Span adj. function
on the side of the body
series EDA.371**



*All wetted parts & housing are made of st. steel.
with Declaration of Conformity, CE
Zero & Span Adjustment function.
The operating buttons are on the side of the body*

General features

- Pressure range from -1...0 bar to 0...1000 bar
- Wetted & housing parts of stainless steel
- Zero & Span Adjustment function
- The operating buttons are on the side of the body
- 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 & 0...1 to 0...1000 bar

Accuracy

included Linearity+Hysteresis+Repeatability

A4: $\pm 0.5\%$ FS

A7: $\pm 0.25\%$ FS

A9: $\pm 0.1\%$ FS in case of $P \geq 1$ bar

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

Power supply

Available power: DC 8...30V

Response time: ≤ 5 ms

Isolation $> 2000M\Omega$ 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.371

Temperature range of

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

Operating: $-20 \dots +100^{\circ}\text{C}$

$-40 \dots 125^{\circ}\text{C}$ [option]

Ambient: $-20 \dots 100^{\circ}\text{C}$

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

mPm plug IP65

2m flying cable IP67

M12 plug IP65

Underwater elec. Plug IP68

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



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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 $V_s = 8...30 \text{ VDC}$

Voltage:
3-wire 0...10V $V_s = 12...30 \text{ VDC}$
0...5V
1...5V

Performance

¹Accuracy: $\leq \pm 0.5\% \text{FSO @ } 25^\circ\text{C}$
 $\leq \pm 0.25\% \text{FSO @ } 25^\circ\text{C}$
 $\leq \pm 0.1\% \text{FSO @ } 25^\circ\text{C}$

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...+ 100 °C
-40...+125 °C / option
Compensated temperature: -10...+ 80 °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.371 · · · · · B ·

Accuracy

A4	≤ 0.5 % F.S
A7	≤ 0.25 % F.S
A9	≤ 0.1 % F.S [positive ≥ 1 bar]

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

P	mPm plug
D	DIN 43650 A
M	M12 plug
C	2m flying cable, IP67
W	underwater plug, IP68

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

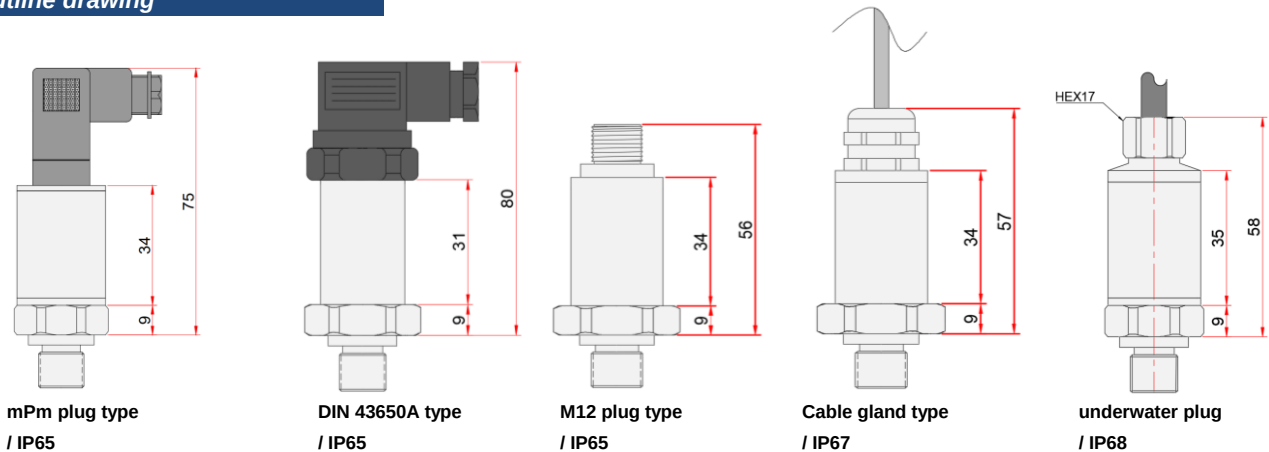
Code	Description
PAA	absolute pressure range [5...6 weeks delivery]
xL	x m cable exstension (0L: 5L = 5 m, 3L = 3 m)
T4	-40...+125 °C
AC25	Restrictor screw in socket hole
TP	St. steel tag plate, 60 x 20 x 0.5t
DMCC	Manufacture calibration certificate
KC	KOLAS Ilac-MRA calibration certificate

How to order

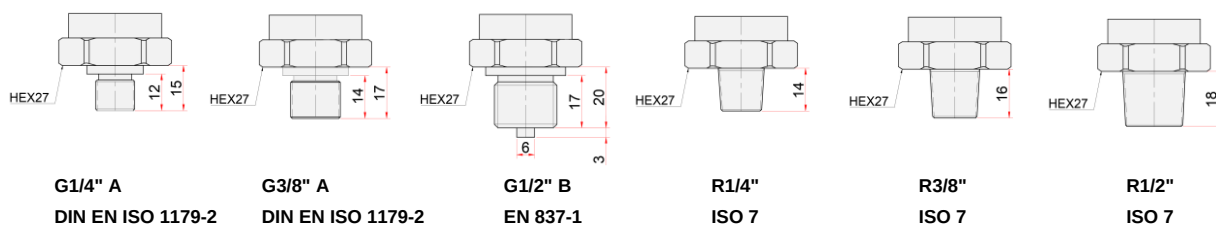
EDA.371.O1.P.G4.BR35

EDA.371, 4...20mA, mPm plug, G 1/4", 0...16 bar

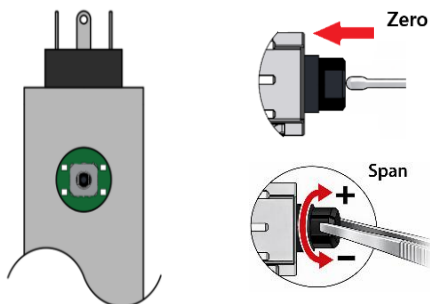
Outline drawing



Process connection



Zero & Span Adjustment function



Zero Adjustment

Press the button three times to set the current pressure value to zero.

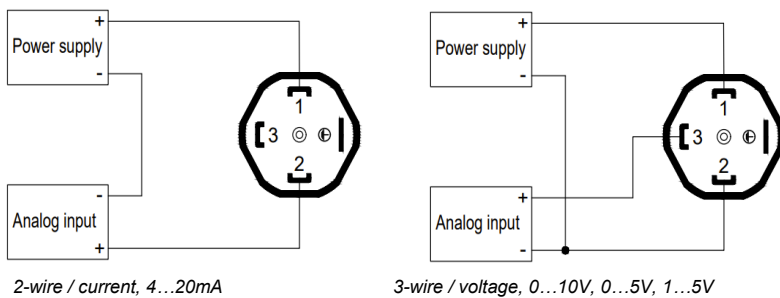
Span Adjustment

Rotate the adjustment screw to set the span value. Press and hold the button for 3 seconds to save the setting.

Zero & Span Adjustment Location

Pin assignment

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



Pin No.	2-Wire	3-Wire
1	+Vcc	+Vcc
2	Output(mA)	GND
3		Output(VDC)