

**Pressure transmitters
a/w process flange MDI
Model EDN.317**



all st. steel housing of wetted parts
with Declaration of Conformity, CE

General features

- Pressure Transmitters assembled with various flanges called by MDI
- Pressure range from 0...1.6 bar to 0...250 bar
- Assembled with process flange according to the standard
- Ingress protection IP65
- Wetted parts of stainless steel, 316L

Application area

- Petroleum and chemical industry
- Water supply and water treatment plant
- Hydraulic and pneumatic control systems
- Hydro and nuclear power application
- General process industry

General specification

Pressure ranges

From 0...1.6 bar to 0...250 bar

Accuracy

± 0.5% FS

included Linearity+Hysteresis+Repeatability

** pressure range, negative ≤ ± 1.0%

Overpressure

1.3 X pressure range

Output type

4...20mA, 2-wire system

0...10V, 3-wire system

0...5V, 3-wire system

1...5V, 3-wire system

Power supply

Ref. power: DC 24V

Available power: DC 12...30V

Response time

≤ 5ms

Isolation

> 100MΩ at 100 VDC

Process connection

According to DIN 1092-1

According to ASME B16.5

According to JIS



series EDN.317 a/w chemical seal MDI

Materials

Wetted parts: St. steel 316L

Body: St. steel 316L

Diaphragm: St. steel 316L

Teflon / option

Electrical connection

DIN43650 A

M12 Plug

Cable type

Others on request

Temperature range

Operating: -20...100 °C

-40...120 °C / option

Temperature compensating range:

0...70 °C

-10...80 °C / option

Ambient: -20...100 °C

Storage: -20...100 °C

Thermal error

Zero thermal error: ±0.75%FS @ 25 °C, typical

Span thermal error: ±0.75%FS @ 25 °C, typical

Protection

IP65 with plug DIN 43650A

Weight

series EDN.3xx, approx. 140g and additionally
depends on each flanges based on each standards.



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Technical specifications

Input pressure range

Norminal pressure:
0...1.6 bar up to 0...250 bar

Permissible static pressure:
1.3 x pressure range

Output signal / Supply

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

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

Performance

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

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: $\leq \pm 0.5\% \text{FS / year}$

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

Compensated tempearture: 0...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

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

Ingress protection: IP65

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

EDN.317 · [] · [] · B [] · [] · []

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
M	M12 plug
C	2m cable
H	General head

Pressure range code, unit bar

Code	Range
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

Process connection

Process flange	See tables on
as per each standard	page 4

Option code

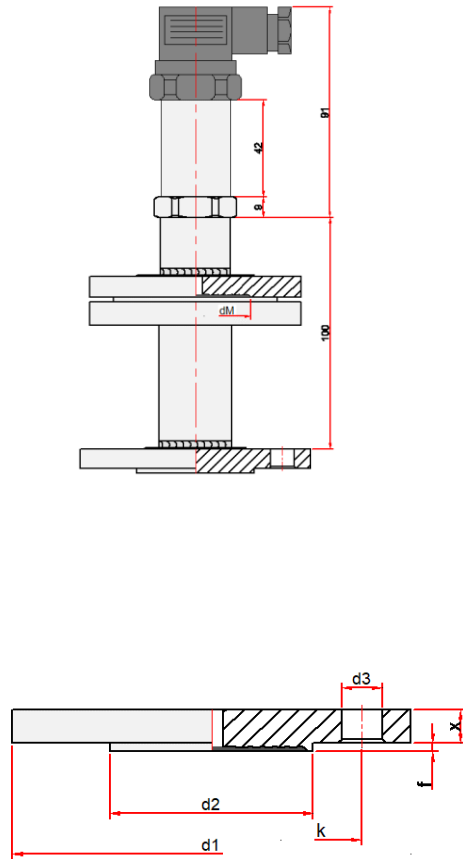
Code	Description
RS	Restrictor screw in socket hole
NO	"USE NO OIL" for Oxygen application
AD	Adapter
CD2	Cooling device up to 200 °C
CD3	Cooling device up to 300 °C
TP	St. steel tag plate, 60 x 20 x 0.5t
DMCC	Manufacture calibration certificate
KC	KOLAS Ilac-MRA calibration certificate
CC	Certificate of conformance / origin

How to order

EDN.317.O1.D.BR35 aw MBI DN25 PN160 according to DIN 1092-1

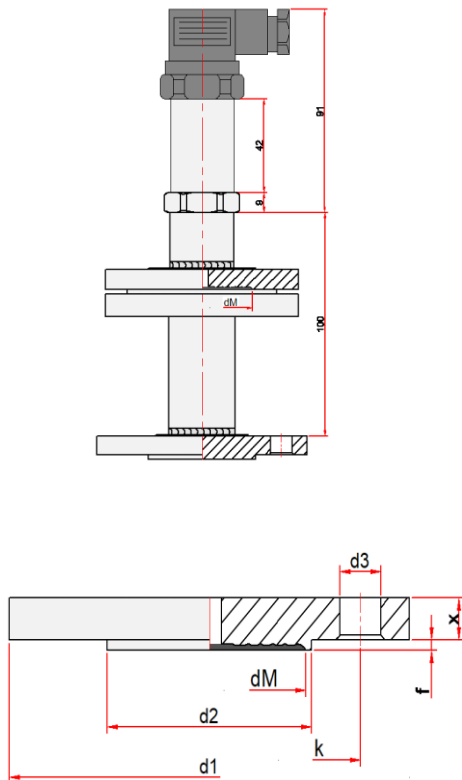
EDN.317, 4...20mA, DIN 43650, 0...16 bar aw MBI, DN25 PN160 according to DIN 1092-1,

assembled with process flange based on DIN 1092-1



DIN 1092-1									
DN	PN	d1	d2	d3	dM	f	k	x	
25	10/40	115	68	Ø 14 x 4	28	2	85	18	
	63/100	140		Ø 18 x 4			100	24	
	160								
	250	150		Ø 22 x 4			105	28	
	320	160					115	34	
	400	180		Ø 26 x 4			130	38	
32	10/40	140	78	Ø 18 x 4	34	3	100	18	
40	10/40	150	88	Ø 18 x 4	38		110		
50	25/40	165	102	Ø 22 x 4	57		125	20	
	63	180		Ø 26 x 4			135	26	
	100	195					Ø 26 x 8	145	28
	160			200				150	38
	250	210		160			42		
	320	210		160			42		
	400	235		180			52		
65	25/40	185	122		72		145	22	
80	10/16	200	138	Ø 18 X 8	84		3	160	20
	25/40							170	24
	63	71		Ø 22 X 8				170	28
	100	75		Ø 26 X 8				180	32
	160	79							36
	250	89		Ø 30 X 8				200	46
100	10/16	63	158	Ø 18 X 8			180	20	
	25/40	67	162	Ø 22 X 8			190	24	
	63	73		Ø 26 X 8			200	30	
	100	79		Ø 30 X 8			210	36	
	160	83						40	
	250	97		Ø 33 X 8			235	54	

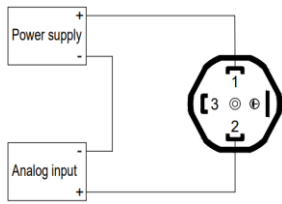
assembled with process flange based on ASME B16.5



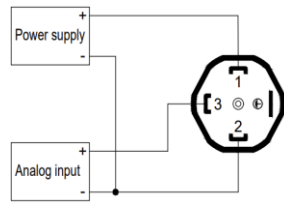
NPS	Class	d1	d2	d3	dM	f	k	x
1"	150	108	50.8	Ø 15.7 x 4	28	1.6	79.2	14.2
	300	124		Ø 19.1 x 4			88.9	17.5
	400/600	124		Ø 25.4 x 4		6.4	101.6	23.9
	900/1500	149.4		Ø 25.4 x 4			108	34.8
	2500	158.8		Ø 25.4 x 4			108	41.5
1 1/2"	150	127	73.2	Ø 15.7 x 4	38	1.6	98.6	17.5
	300	155.4		Ø 22.4 x 4			114.3	20.6
	400/600	155.4		Ø 22.4 x 4		6.4	114.3	28.8
2"	150	152.4	91.9	Ø 19.1 x 4	57	1.6	120.7	19.1
	300	165.1		Ø 19.1 x 8			127	22.4
	400/600	165.1		Ø 25.4 x 8		6.4	165.1	31.8
	900/1500	215.9		Ø 28.4 x 8			171.5	44.5
	2500	235		Ø 28.4 x 8			171.5	57.2
3"	150	190.5	127	Ø 19.1 x 8	84	1.6	152.4	23.9
	300	209.6		Ø 22.4 x 8			168.1	28.4
	400/600	209.6		Ø 22.4 x 8		6.4	190.5	38.2
	900	241.3		Ø 25.4 x 8			203.2	44.5
	1500	266.7		Ø 31.8 x 8			203.2	54.2
4"	2500	304.8	157.2	Ø 35.1 x 8	84	1.6	228.6	72.9
	150	228.6		Ø 19.1 x 8			190.5	23.9
	300	254		Ø 22.4 x 8		6.4	200.2	31.8
	400	273.1		Ø 25.4 x 8			215.9	41.5
	600	273.1		Ø 31.8 x 8			234.9	44.5
4"	900	292.1		Ø 35.1 x 8		6.4	234.9	50.8
	1500	311.2		Ø 35.1 x 8			241.3	60.2

Pin assignment

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



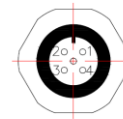
2-wire / current



3-wire / voltage

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

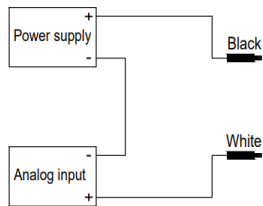
M12 x 1, 5-pin / male



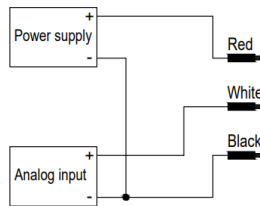
Pin No.	2-Wire	3-Wire
1	+Vcc	+Vcc
2	Output(mA)	GND
3		Output(VDC)
4		

Connection wiring diagram

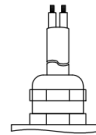
Flying leads with 2m cable



2-wire / current



3-wire / voltage



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



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