Pressure transmitters
0.5…4.5V / 5V ratio-metric
EDN.345 accuracy 0.5%
EDN.343 accuracy 0.25%
EDN.341 accuracy 0.1%

wetted parts & housing are made of st. steel
for second battery application
with Declaration of Conformity, CE

CE

General features

- Piezosistive Silicon Pressure Transmitters for industrial applications, ratiometirc output
- Pressure range from -1…0 bar & 0…1 bar to 0…1000 bar
- Wiring with DIN43650A L-connector or various connectors
- Ingress production IP65 / IP67 / IP68
- Housing parts of stainless steel



Application area

- Vehicle industry for secondary battery
- Hydraulic and pneumatic control systems
- Pump and compressors
- Control equipments and air conditioning system
- pressure checking system

General specification

Pressure ranges
-1…0 bar to 0…1 bar to 0…1000 bar

Accuracy
including non-lenearity, hysteresis, zero point and
full scale error according to IEC 61298-2
EDN.345 accuracy ≤ 0.5%
EDN.343 accuracy ≤ 0.25%
EDN.341 accuracy ≤ 0.1%

Output type
0.5…4.5V / 5V, ratio-metric, 3-wire system

Overpressure	1.3 X pressure range
Power supply	5.0 V_{DC} ±0.5 V
Response time	≤ 10ms
Isolation	> 100MΩ at 100 V_{DC}
Reverse Polarity and overvoltage protection	± 40 V_{DC}

Materials

Wetted parts:	St.steel 316L
Sensor sealing:	FKM
Body:	St.steel 304

Thermal error

Zero thermal error:	±0.15%FS @ 25℃, typical
Span thermal error:	±0.15%FS @ 25℃, typical

Pressure transmitter series EDR.341

Temperature range
Compensated temperature range: 0…80℃

Temperature range of

Operating:	-20…80 ℃
	-40…125 ℃ / option
Ambient:	-40…100 ℃
Storage:	-40…100 ℃

Electrical connection

DIN43650 A	IP65
M12 Plug	IP65
Cable type	IP67
mPm Plug	IP65
Underwater plug	IP68

Pressure connection
G 1/4", DIN 3852-E with sealing by DIN 3869 ring seals
G 1/2"
R 1/4"
R 1/2"
Others on request

Protection
IP65, DIN 43650A plug & mPm plug
IP67, Flying cable, M12 plug
IP68, Underwater plug with flying cable

Weight
Approx. 140g

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Seoul 08215 Korea
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Technical specifications

Input pressure range

Norminal pressure:

-1…0 bar up to 0…1000 bar

Permissible static pressure:

1.3 X pressure range, max.1100 bar

Output signal / Supply

Voltage:

3-wire 0.5…4.5V ratiometric Vs=5,0 V_{DC} ±0,5 V

Reverse Polarity and Overvoltage Protection

± 40 V_{DC}

Performance

[1]Accuracy: ≤ ±0.5%FSO @ 25℃

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

Permissible load / R_L

Voltage: 3-wire, R_L min=10kΩ

Influence effects:

Supply:	±1.0%FSO/5V
Longterm stability:	≤±0.025%FS / year
Response time:	<10ms

Thermal effects (Offset and Span) / Permissible temperatures

FS thermal error:	±0.75%FS @ 25℃, typical
Zero thermal error:	±0.75%FS @ 25℃, typical
Operating temperature:	-30…100°C
Compensated tempearture:	-20…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

Voltage:

0.5…4.5V ratiometric, 3-wire system

Ingress protection:

IP65 with plug DIN 43650A
IP67 with M12 plug
IP67 with flying cable type
IP65 with mPm plug
IP68 with underwater plug

EMC Test report for CE conformance

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

Special features

- Protection against reverse polarity connections(±40V_{DC})
- High Noise Immunith Performance against Electrical Fast Transient (EFT) noise. (±2,000V CE Test)
- High Precision against variations in ambient temperature. (±1.3% in -20…70°C)
- Wide pressure operating range.
  30% lower than the minimum
  and 30% higher than the maximum.
  Ex.) Operable -0.5bar to 13bar for 0…10bar transmitters
- Protection against instantaneous surge voltage
- Durable design for severe vibration
- Sturdy st. steel housing
- Blocking from the outside due to laser welding

Ordering information

Model code **EDR.34X · ___ · ___ · ___ · B ___**

Third digit according to accuracy class	
5	accuracy ≤ 0.5 %
3	accuracy ≤ 0.25 %
1	accuracy ≤ 0.1 %

Electrical connection	
P	mPm plug
D	DIN 43650 A
M	M12 plug
C	2m flying cable
U	underwater plug

Process connection	
G2	G 1/2" (PF 1/2")
G4	G 1/4" (PF 1/4")
R2	R 1/2" (BSPT 1/2")
R4	R 1/4" (BSPT 1/4")

Pressure range code, unit bar

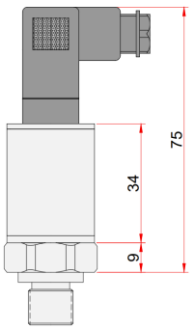
Code	Range
R19	-1…0
R23	0…1
R26	0…1.6
R28	0…2.5
R30	0…4
R34	0…6
R33	0…10
R35	0…16
R37	0…25
R39	0…40
R41	0…60
R43	0…100
R45	0…160
R47	0…250
R50	0…400
R53	0…600
R55	0…1000
RYY	others on request

How to order

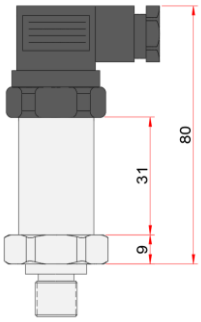
EDR.341.O5.P.G4.BR35

EDR.341, 0.5…4.5V ratiometric, mPm plug, G1/4", 0…16bar

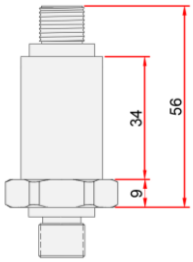
Outline drawing



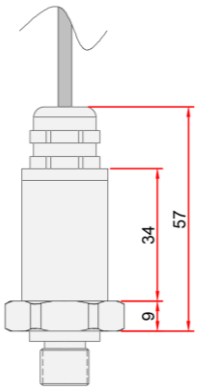
MPM Plug
/ IP65



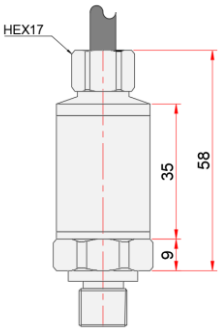
DIN 43650A
/ IP65



M12 Plug
/ IP65

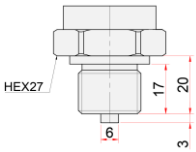


Cable gland
/ IP67

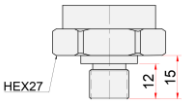


underwater plug
/ IP68

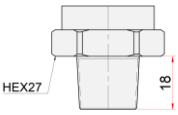
Process connection



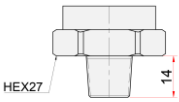
G1/2" B
EN 837-1



G1/4" A
DIN EN ISO 1179-2



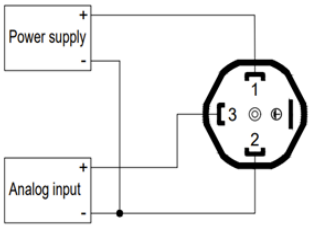
R1/2"
ISO 7



R1/4"
ISO 7

Pin assignment

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



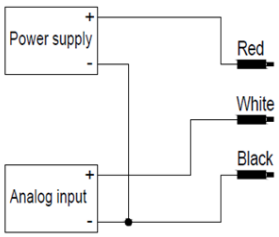
Pin No.	3-Wire
1	+Vcc
2	GND
3	Output(VDC)

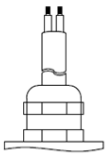
M12 x 1, 5-pin / male



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

Flying leads with 2m cable





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

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