

## Pressure transmitter for general industry series EDN.342

All st. steel for wetted parts & housing  
with Declaration of Conformity, CE

### General features

- Piezo-resistive pressure transmitters for industrial applications
- Pressure range from -1...1 bar to 0...1000 bar
- Wiring with General head or various connectors
- Ingress protection IP65
- All st. steel for wetted parts & housing
- CE certified, declaration of conformity

### Application area

- R & D applications
- High qualified industrial applications
- Special design and specifications for various applications
- Hydraulic and pneumatic control systems
- Various applications for liquid pressure system

### General specification

#### Pressure ranges

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

#### Accuracy

± 0.5% FS

included Linearity+Hysteresis+Repeatability

Option:

± 0.25% FS

included Linearity+Hysteresis+Repeatability

#### Overpressure

1.5 X pressure range

#### Output type

Current (2-wire) : 4...20mA

Voltage (3-wire) : 0...10V

(Option : 0...5V, etc.)

#### Power supply

Ref. power : DC 24V

Available power : DC 12...28V

#### Response time

≤ 5ms

#### Isolation

> 100MΩ at 100 VDC



### Pressure transmitter series EDS.342

#### Materials

Wetted parts : St. steel 316L

Sensor sealing : No O-ring

Body : St. steel 304

#### Electrical connection

General head (Only)

#### Pressure connection

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

PT 1/4", PT 1/2", others upon request

#### Temperature range

Operating : -20...80 °C

Compensated : -10...70 °C

#### Thermal error

Zero thermal error : ±0.75%FS @ 35 °C (typ.)

Span thermal error : ±0.75%FS @ 35 °C (typ.)

#### Protection

IP65

#### Weight

Approx. 140g

#### Option

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



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## Technical data

Input pressure range				
Norminal pressure	[bar]	-1...1 bar to 0...1000 bar		
Permissible static pressure		1.5 x pressure range		
Output signal / Supply				
Standard	2-wire	4...20mA	Vs=12...28 VDC	
	3-wire	0...10V	Vs=12...28 VDC	
Performance				
Accuracy	≤ ±1.0%FSO			
Permissible load	Current 2-wire	R max=[(Vs-Vs min)/0.02A]Ω		
	Voltage 3-wire	R min=10kΩ		
Influence effects	Supply	0.05%FSO/10V		
Longterm stability	≤ ±0.5%FS / year			
Response time	<5ms			
<sup>1</sup> accuracy according to IEC 60770 - limit point adjustment (non-linearity, hysteresis, repeatability)				
Thermal effects (Offset and Span) / Permissible temperatures				
FS thermal error	±0.75%FS @ 35 °C			
Zero thermal error	±0.75%FS @ 35 °C			
Operating temperature	-20...80 °C			
Compensated tempearture	-10...70 °C			
Electrical protection				
Reverse polarity	Protection			
Electromagnetic compatibility	Emission and immunity according to EN 61326, EN 55011			
Isolation	100 MΩ at 100 VDC			
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	Stainless steel 304			
Diaphragm	Stainless steel 316L			
Media wetted parts	Stainless steel 316L			
Miscellaneous				
Current consumption	Signal output current	max. 25mA		
	Signal output voltage	max. 7mA		
Weight	approx. 140g			
Operation life	>100X10 <sup>6</sup> pressure cycles			
Ingress protection	IP65			
Pin configuration				
Pin	1	2	3	4
2-wire	+Vcc	GND/OUT	NC	Shielded GND 
3-wire	+Vcc	GND	+OUT	Shielded GND 

## Ordering Information

Model code

EDN.342

### Output signal

O1 : 4...20mA, 2-wire system  
 O2 : 0...10V, 3-wire system  
 O5 : 0...5V, 3-wire system  
 O4 : 1...5V, 3-wire system

### Electrical connection

H : General head

### Option

Refer to option table

### Pressure range

Refer to pressure range table

### Process connection

G2 : PF 1/2"	N2 : NPT 1/2"
G3 : PF 3/8"	N3 : NPT 3/8"
G4 : PF 1/4"	N4 : NPT 1/4"
R2 : PT 1/2"	U1 : UNF 7/16"-20 male
R3 : PT 3/8"	U2 : UNF 7/16"-20 female
R4 : PT 1/4"	H1 : UNF 5/8"-18 female
	H2 : M16 x 1.5 female

### Pressure range code, unit bar

Code	Range	Code	Range	Code	Range	Code	Range
R19	-1...0	R30	0...4	R40	0...50	R50	0...400
R21	0...0.6	R31	0...5	R41	0...60	R51	0...450
R22	0...0.8	R32	0...6	R42	0...70	R52	0...500
R23	0...1	R33	0...10	R43	0...100	R53	0...600
R24	0...1.2	R34	0...15	R44	0...150	R54	0...700
R25	0...1.5	R35	0...16	R45	0...160	R55	0...1000
R26	0...1.6	R36	0...20	R46	0...200	RYY	Others
R27	0...2	R37	0...25	R47	0...250		
R28	0...2.5	R38	0...35	R48	0...300		
R29	0...3	R39	0...40	R49	0...350		

### Option code

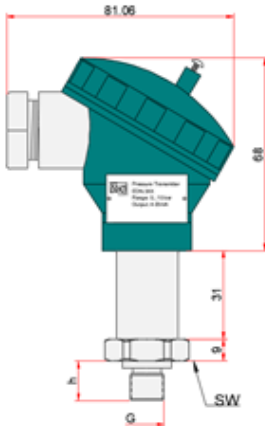
Code	Description	Code	Description
CD2	Cooling device up to 200°C	MC	Manufacture calibration certificate
CD3	Cooling device up to 300°C	KC	KOLAS Ilac-MRA calibration certificate
TP	St. stell tag plate, 60 x 20 x 0.5t		

### How to Order

EDN.342.O1HG4R35

EDN.342, ±0.5%FS, 4...20mA, General head, G 1/4", 0...16 bar

## Outline drawing



### thread connection

ISO 1179-2, KS B0222			
Standard	G	h	SW
KS B0222	R 1/4"	13	32
	R 3/8"	15	
	R 1/2"	19	
A DIN EN ISO 1179-2	G 1/4"	14	
	G 3/8"	16	
	G 1/2"	20	

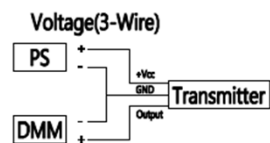
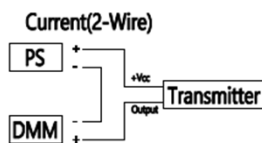
## Wiring

### - Current output pressure transmitter

Pin No.	DIN 43650 A	M12 Plug	Cable Type
1	+Vcc	+Vcc	Black(Red)
2	Output(mA)	Output(mA)	White
3	NC	NC	
4	⊥	⊥	

### - Voltage output pressure transmitter

Pin No.	DIN 43650 A	M12 Plug	Cable Type
1	+Vcc	+Vcc	Black(Red)
2	GND	GND	Green
3	Output(VDC)	Output(VDC)	White
4	⊥	⊥	



## Process connection

### - others upon request

Standard	Thread size
DIN 3852-E	G 1/4"
	G 1/2"
KS	PT 1/4"
	PT 1/2"

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