All st. steel housing pressure transmitters LCD white bright digital window series EDN.730

((

RS485 communication

2 channel relays, swiches

Glod plaed piezoresistive pressure sensors for Hydrogen H₂ with Declaration of Conformity, CE

General features

- Pressure range from -1...0 bar to 0...1050 bar
- Multi-functional LCD, 4 1/2-digit
- Various pressure scale units available
- Zero point, range adjustable
- 2 channe relays, switch functions [option]
- RS485 digital communication [option]

Application area

- Semiconductor industry
- Pharmacetical and midicine industry
- Hydraulic and pneumatic control systems
- Pressure calibration, pressure checking
- Liquid pressure system and switch

General specification

Pressure ranges

From -1...0 bar, 0...1 bar to 0...1050 bar Min. span range is 200 mbar.

Accuracy

included Linearity+Hysteresis+Repeatability ± 0.35% FS

[options]

- ± 0.25% FS
- ± 0.1% FS
- ± 0.05% FS

X Less 200 mbar of gain, it could be accuracy upto 0.1%

Overpressure

1.3 x pressure range

Output signal

4...20mA, 2-wire system

0...10V, 0...5V, 1...5V, 0.5...4.5V, 3-wire system

Power supply

Available power: DC 12...30V

Temperature range

Temperature compensating range: 0...70 ℃

Operating: -20...100 ℃

-40...125 °C / option

±0.75%FS @ 25℃, typical

Ambient: $-20...100 \,^{\circ}$ C Storage: $-40...120 \,^{\circ}$ C

Thermal error ±0.75%FS @ 25℃, typical



Pressure transmitter, series EDN.730

Special functions [option]

- RS485 digital communication.
- 2 channe relays, switches.

Isolation > $100M\Omega$ at 100 VDC

Electrical connection Flameproof cable gland / M12

Display LCD, 4 1/2 - digit, -1999...9999

Bar graph

Background Light white

Materials

Wetted parts: st. steel 316L Body: st. steel

Pressure connection

G 1/4", G 3/8", G 1/2" R 1/4", R 3/8", R 1/2" NPT 1/4", NPT1/2"

Adjusttable Pressure units

bar, mbar, MPa, kPa, psi, kg/cm2, mmH2O, inH2O mmHg, inHg, torr, atm.

Operation window

Pressure ranges. zero point adjustment.

characteristic curve and damping rate are adjustable

on the device.



Zero thermal error:

DAHO Tronic Limited

Tel: 02-865-7001 Fax: 02-865-7309

mail: info@daho.co.kr

STX W-Tower 209 Gyeongin-ro 53 Gil 90 Guro-gu Seoul 08215 Korea www.daho.co.kr

Technical specifications

Input pressure range

Norminal pressure:

-1...0 bar, 0...2 bar up to 0...1050 bar

Permissible static pressure:

1.3 x pressure range, max.1100 bar

Output signal / Supply

Current:

2 channe 4...20mA Vs=12...30 VDC

Voltage:

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

Performance

¹Accuracy: $\leq \pm 0.35\%$ FSO @ 25 °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 max=[(Vs-Vs min)/0.02A] Ω

Voltage: 3-wire. R_I min=10kΩ

Influence effects:

Supply: 0.05%FSO/10V Longterm stability: $\leq \pm 0.5\%$ FS / year

Response time: <5ms

Thermal effects (Offset and Span) / Permissible temperatures

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

Wetted parts: stainless steel 316L Housing / body: stainless steel 304

Sensor diaphragm: Gold plated on Sensor Diaphragm

Miscellaneous

Current consumption

Signal output current max. 25mA

Curren

4...20mA, 2-wire system

Signal output voltage max. 7mA

Voltage:

0...10V, 0...5V, 1...5V, 0.5...4.5V, 3-wire system

Signal output voltage max. 25mA

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 (±40VDC).

■ High Noise Immunity Performance against Electrical Fast Transient (EFT) noise.

■ 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.

■ Protection against instantaneous surge voltage.

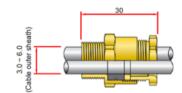
■ Durable design for severe vibration.

Electrical connecting cable gland

■ IP66

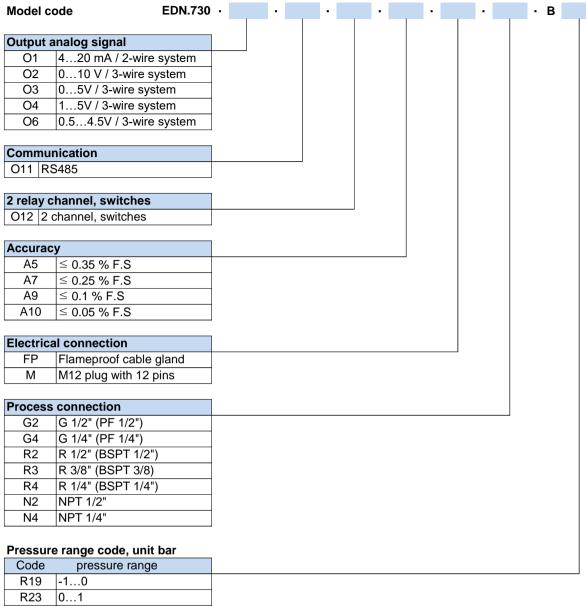
■ Materials: Brass with nickel plated

■ Cable outer : 3.0...6.0 mm





Ordering information



pressure range
-10
01
01.6
02.5
04
06
010
016
025
040
060
0100
0160
0250
0400
0600
01000
01050
Others on request

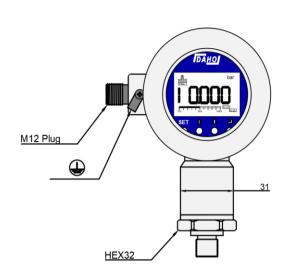
How to order

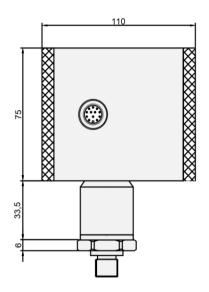
EDN.730.O1.A5.FP.G4.BR35

EDN.730, 0.35%, 4...20mA, Frameproof cable gland, G 1/4", 0...16 bar

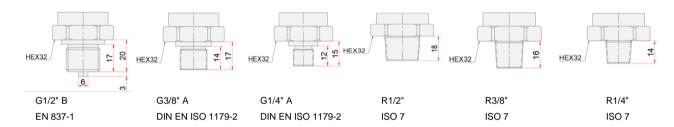


Outline drawing



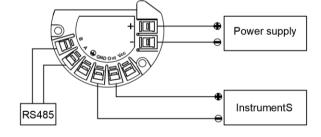


Process connection

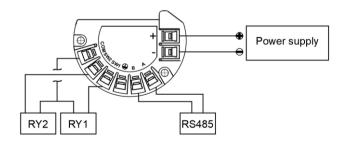


Electrical connection Diagram

Output signal	
Pin No.	Wire
+	+Vcc
-	-Vcc
Out	+ Signal
GND	- Signal
Α	RS485 A
В	RS485 B



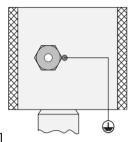
Relay	
Pin No.	2-wire
+	+Vcc
-	-Vcc
Α	RS 485A
В	RS 485B
SW1	Relay 1
SW2	Relay 2
COM	Relay COM

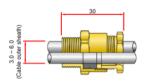




Electrical connection Diagram

Cable gland

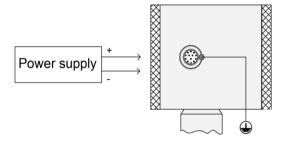




, switch functions [option]

Electrical plug, M12

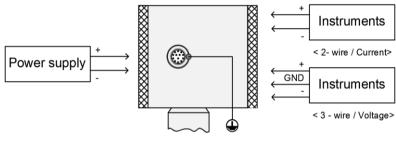
No Output signal





Pin No.	Wire
1	+Vcc
2	-Vcc
12	earth

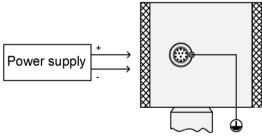
Output signal

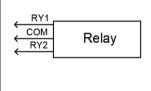




Pin No.	Current	Voltage
1	+Vcc	+Vcc
2	-Vcc	-Vcc
3	+Out	+Out
4	-Out	GND
5		-Out
12	earth	earth

Relay signal

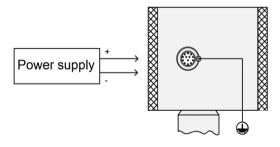


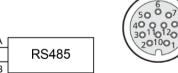




Pin No.	Wire
1	+Vcc
2	-Vcc
6	Relay 1
7	Relay 2
8	COM
12	earth

RS485 Communication





6 50 0 07 40 0 0 08 301101209 201001
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Pin No.	Wire
1	+Vcc
2	-Vcc
9	RS 485A
10	RS 485B
12	earth

[DAHO]

Daho Tronic Ltd.

STX W-Tower 209

Gyeongin-ro 53Gil 90 Guro-gu

www.daho.co.kr

Tel: +82 2 865-7001 Fax: +82 2 865-7309

info@daho.co.kr www.daho.co.kr