Low pressure transmitters for scrubber machines series EDL.335

st. steel housing & wetted parts

General features

- Piezoresistive silicon pressure sensors applied
- Pressure range from ±25 mbar to ±500 mbar
- Wiring with DIN43650A L-connector or various connectors
- Wetted & housing parts are made of st. steel 316L
- 12.4 mm hole with pressure thread connections, i.e, G 1/2", R 1/2" and G 3/4"

Application area

- for scrubber machine application
- for low pressure measurement
- for air & various gases pressure measurement



General specification

Pressure transmitter series EDL.335

Pressure ranges
-25 mbar …+25 mbar
-50 mbar …+50 mbar
-250 mbar …+250 mbar
-500 mbar …+500 mbar
others on request

Accuracy
included Linearity+Hysteresis+Repeatability
± 0.5% FS
± 0.25% FS. *[P. measuring range ≥ 100 mbar]*

Overpressure
1.3 X pressure range

Output type

Current / 2-wire:	4…20mA
Voltage / 3-wire:	0…10V
	0…5V
	1…5V

Power supply

Reference power:	DC 24V
Available power:	DC 12…30V

Response time ≤ 5ms

Isolation > 100MΩ at 100 VDC

Materials

Wetted parts:	st. steel. 316L
Body:	st. steel. 304

Electrical connection

DIN43650 A	IP65
mPm plug	IP65
2m flying cable	IP67
M12 plug	IP67
Underwater elec. Plug	IP68

Pressure connection
G 1/2" with 12.4mm hole
others on request

Temperature range of

Operation:	-20…100℃
Compensation:	-10…80℃

Thermal error

Zero thermal error:	±0.75%FS @ 25℃ (typ.)
Span thermal error:	±0.75%FS @ 25℃ (typ.)

Weight Approx. 166g

Option
High temperature adapter
up to 200℃ / up to 300℃

DAHO Tronic Limited
Tel: 02-865-7001 Fax: 02-865-7109
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:

±25 mbar to ± 500 mbar

Permissible static pressure:

1.3 x pressure range, max.1100 mbar

Output signal / Supply

Current:

2-wire	4…20mA	Vs=12…30 VDC

Voltage:

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

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

Current: 2-wire, R_L max=[(Vs-Vs min)/0.02A]Ω

Voltage: 3-wire, R_L min=10kΩ

Influence effects:

Supply:	0.05%FSO/10V
Longterm stability:	≤±0.5%FS / year
Response time:	<5ms

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:	-20…100℃
Compensated tempearture:	-10…80℃

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
0…5V, 3-wire system
1…5V, 3-wire system

Ingress protection: IP65 / IP67 / IP68 (depending on electrical connection)

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 **EDL.335** · ____ ____ ____ ____ **B** ____ · ____

Accuracy	
A4	± 0.5%
A7	± 0.25%, meas. P≥200 mbar

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 cable

Process connection	
R4	R1/4" with 6mm hole
G2	G1/2" with 12.4mm hole
G4	G1/4" with 6mm hole
XX	Others

Pressure range code, unit bar

Code	**Range**
R124	±25 mbar
R127	±50 mbar
R132	±250 mbar
R135	±500 mbar
RXXX	Others on request

Option code

Code	**Description**
T4	-40…125℃ / operating temperature
RS	Restrictor screw in socket hole
NO	"USE NO OIL" for Oxygen application
AD	Adapter
CD2	Cooling device up to 200℃
CD3	Cooling device up to 300℃
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

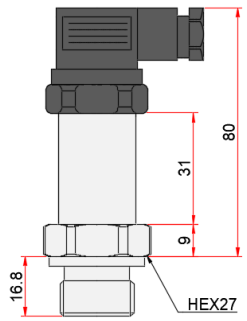
How to Order

EDL.335.A4.O1.M.R4.BR135

EDL.335, ±0.5%FS, 4…20mA, M12, R 1/4" with 6mm hole, ± 500 mbar

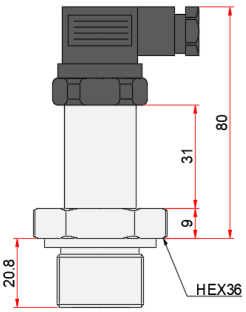
Outline drawing

DIN 43650 A plug



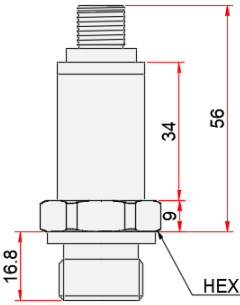
G 1/2" with hole 12.4mm hole

DIN 43650 A plug



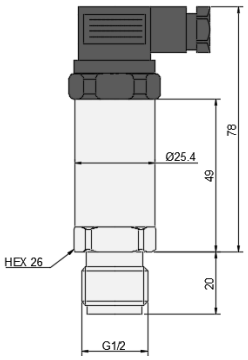
G 3/4" with hole 12.4mm

M12 plug



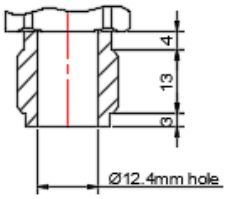
G 1/2" with hole 12.4mm hole

DIN 43650 A plug



G1/2" with washer

Process connection



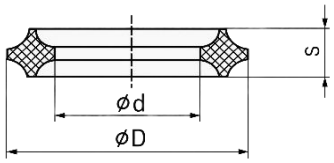
■ others upon request

Standard	Thread size
DIN 3852-E	G 1/2" with hole 12.4mm
	G 3/4" flush diaphragm type

Metal gasket (Sealing washer)(Option)



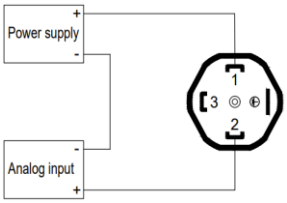
Model: AC23



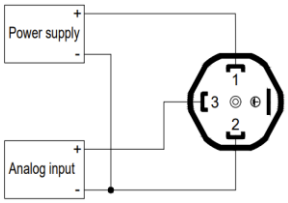
Model	Thread	Dimension in mm			Material
		D + 0.2	d - 0.2	s	
AC23	G 1/2"	14.8	8	4	316L

Pin assignment

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



2-wire / current



3-wire / voltage

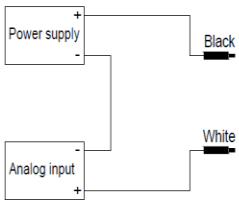
Pin No.	2-Wire	3-Wire
1	+Vcc	+Vcc
2	Output(mA)	GND
3		Output(VDC)

M12 x 1, 5-pin / male

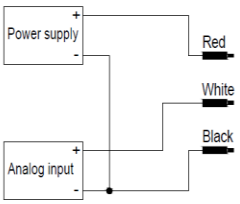


Pin No.	2-Wire	3-Wire
1	+Vcc	+Vcc
2		
3	Output(mA)	GND
4		Output(Vdc)

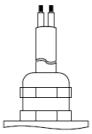
Flying leads with 2m cable



2-wire / current



3-wire / voltage



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

Daho Tronic Ltd.
STX W-Tower 209
Gyeongin-ro 53Gil 90 Guro-gu
Seoul 08215 Korea
Tel: +82 2 865-7001 Fax: +82 2 865-7109
info@daho.co.kr
www.daho.co.kr