YDAC INTERNATIONAL



Description:

The pressure transmitter series HDA 4400 has a pressure measurement cell with thin-film strain gauge on a stainless steel membrane.

The 4 .. 20 V or 0 .. 10 V output signals enable connection to all HYDAC ELECTRONIC GMBH measurement and control devices as well as connection to standard evaluation systems (e.g. PLC controls).

The main areas of application are in the mobile or industrial sectors of hydraulics and pneumatics, particularly in applications with restricted installation space.

Special features:

- Accuracy $\leq \pm 0.5$ % FS typ.
- Highly robust sensor cell
- Very small temperature error
- Excellent EMC characteristics
- Very compact design
- Persuasive price / performance ratio

Electronic Pressure Transmitter HDA 4400

| Technical data:

60; 100; 250; 400; 600; 1000 bar 120; 200; 500; 800; 1000; 1600 bar ; 300; 500; 1000; 2000; 2000; 3000 bar 4 A DIN 3852; G1/2 A DIN 3852 Nm (G1/4); 45 Nm (G1/2) ch. conn.: Stainless steel al: FPM 20 mA, 2 conductor $R_{Lmax} = (U_B - 8 V) / 20 mA [k\Omega]$ 10 V, 3 conductor $R_{Lmin} = 2 k\Omega$ 0.5 % FS typ. 1 % FS max. 0.25 % FS typ. 0.55 % FS typ. 0.55 % FS max. 0.015 % FS / °C typ. 0.025 % FS / °C max. 0.3 % FS max. 0.4 % FS max. 0.3 % FS typ. / year +85 °C
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$R_{Lmax} = (U_B - 8 V) / 20 mA [kΩ]$ 10 V, 3 conductor $R_{Lmin} = 2 kΩ$ 0.5 % FS typ. 1 % FS max. 0.25 % FS typ. 0.5 % FS max. 0.015 % FS / °C typ. 0.025 % FS / °C max. 0.3 % FS max. 0.4 % FS max. 0.1 % FS ms 0.3 % FS typ. / year
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ms 0.3 % FS typ. / year
0.3 % FS typ. / year
+85 °C
+85 °C
+85 °C
+100 °C
+100 °C / -25 +100 °C
61000-6-1 / 2 / 3 / 4
tificate No. E318391
D g
 (for male EN175301-803 (DIN 43650) and Binder 714 M18) (for M12x1, when an IP 67 connector is used)
30 V DC, 2 conductor 30 V DC, 3 conductor
nited energy - according to UL 61010; Class 2; 1310/1585; LPS UL 60950
%
5 mA
0 million cycles 100 % FS
45 g
n 3

¹⁾ 1000 bar only with mechanical connection G 1/2 A DIN 3852 and vice versa
 ²⁾ -25 °C with FPM seal, -40 °C on request
 ³⁾ Environmental conditions in accordance with 1.4.2 UL 61010-1; C22.2 No 61010-1

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Model code:

HDA 4 4 X X – X – <u>XXX</u> – <u>000</u>

Mechanical connection

- 2 = G1/2 A DIN 3852 (only for "1000 bar" press. range)
- 4 = G1/4 A DIN 3852 (male)

Electrical connection

- = Male, 4 pole Binder series 714 M18 4 (connector not supplied)
- 5 = Male, 3 pole + PE, EN175301-803 (DIN 43650) (connector supplied) 6
- = Male M12x1, 4 pole (connector not supplied)

Signal

2

- = 4 .. 20 mA, 2 conductor А
- В = 0 .. 10 V, 3 conductor

Pressure ranges in bar

016; 060; 100; 250; 400; 600 1000 bar (only in conjunction with mechanical connection type "2")

Modification number

000 = Standard

Note:

On instruments with a different modification number, please read the label or the technical amendment details supplied with the instrument.

Accessories:

Appropriate accessories, such as electrical connectors, can be found in the Accessories brochure.

Dimensions:



3pole+PE EN175301-803 (DIN 43650)

male electr. conn.

4 pole

M12x1

12,3





male electr. conn





Binder series 714 M18

Pin	HDA 44X4-A	HDA 44X4-B
1	n.c.	+U _B
2	Signal+	Signal
3	Signal-	0 V
4	n.c.	n.c.

EN175301-803 (DIN 43650)



Pin	HDA 44X5-A	HDA 44X5-B
1	Signal+	+U _B
2	Signal-	0 V
3	n.c.	Signal
T	Housing	Housing

M12x1

Pin	HDA 44X6-A	HDA 44X6-B
1	Signal+	+U _B
2	n.c.	n.c.
3	Signal-	0 V
4	n.c.	Signal

Note:

The information in this brochure relates to the operating conditions and applications described.

For applications or operating conditions not described, please contact the relevant technical department. Subject to technical modifications.

HYDAC ELECTRONIC GMBH

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