HYDAD INTERNATIONAL



Description:

The pressure transmitter series HDA 8700 has been specifically developed for the OEM market, e.g. in mobile applications. Like most of our pressure transmitter series, the HDA 8700 is based on a robust and long-life thin-film sensor.

All of the parts in contact with the fluid (sensor and pressure port) are made of stainless steel and are welded together with one another. This means that there are no sealing points in the interior of the sensor. The possibility of leakage is excluded.

The pressure transmitters are available in various pressure ranges from 0 .. 40 bar up to 0 .. 600 bar. For integration into modern controls, standard analogue output signals are available, e.g. 4 .. 20 mA, 0 .. 5 V, 1 .. 6 V or 0 .. 10 V. Ratiometric output signals are also available.

A variety of connection plugs integrated in the device and diverse cable solutions are available for the electrical connection.

A basic accuracy of $\leq \pm 0.25$ % FS typical, combined with a small temperature drift, ensures a broad range of applications for the HDA 8700.

PressureTransmitterHDA 8700for series applications

Relative pressure Accuracy 0.25 %

Customised designs thanks to diverse electrical and mechanical connections and a large number of output signals

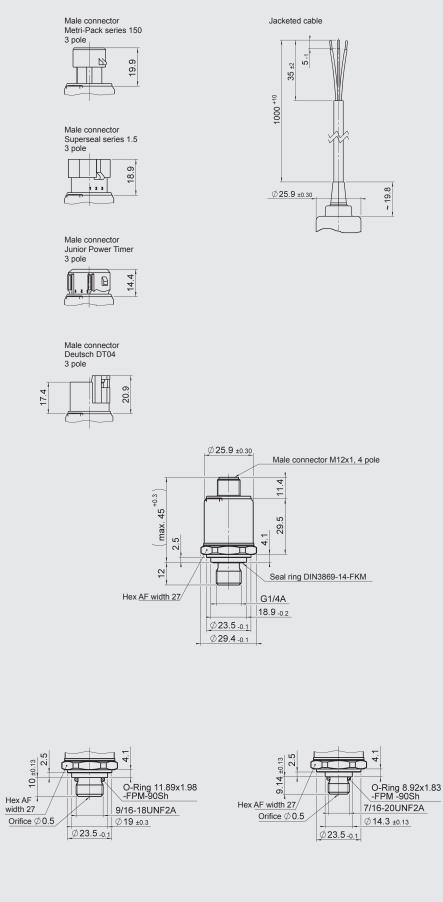


| Technical data:

nput data	bar	40	60	100	160	250	400	600
Measuring ranges	bar	40 80	60 120	100	160 320	250	400	600
Overload pressures	bar bar	200	300	200 500	320 800	500 1250	800 2000	1000
Burst pressure bar 200 300 Mechanical connection				Various threads e.g.: G1/4 A ISO 1179-2 M14x1 5 SAE 6, 9/16-18 UNF 2A				
Parts in contact with fluid ¹⁾				Mech. connection: Stainless steel Seal: FKM				
Output data								
Output signal				Various signals e.g.: 420 mA, 05 V, 16 V, 010 V, ratiometric: 0.54.5 V for U _B = 5 V DC (1090 % U _B \pm 5 %)				
Accuracy acc. to DIN 16086, terminal based				≤ ± 0.25 % FS typ. ≤ ± 0.5 % FS max.				
Accuracy, B.F.S.L.				≤ ± 0.15 % FS typ. ≤ ± 0.25 % FS max.				
Temperature compensation Zero point / span				≤ ± 0.01 % FS / °C typ. ≤ ± 0.02 % FS / °C max.				
Non-linearity acc. to DIN 160 terminal based	086,			≤ ± 0.3 %				
Hysteresis				≤±0.1 % FS max.				
Repeatability				≤±0.1%FS				
Rise time				≤ 1.5 ms ≤ ± 0.3 % FS typ. / year				
Long-term drift				$\leq \pm 0.3 \%$	FS typ. / y	ear		
Environmental conditions				05 .05				
Compensated temperature range				-25 +85 °C				
Operating temperature range ²⁾ Storage temperature range				-40 +100 °C / -25 +100 °C -40 +100 °C				
Medium temperature range ²⁾				-40 +125 °C / -25 +125 °C				
				EN 61000-6-1/2/3/4				
				Certificate no.: E318391 E13*10R00*10R03*3969*01				
E ¹³ mark					0^10R03^	3969^01		
Vibration resistance acc. to DIN EN 60068-2-6 at 5 20	00 Hz			≤ 25 g	(1.16.)			
Shock resistance acc. to DIN EN 60068-2-27				100 g / 6 ms / half-sine 500 g / 1 ms / half-sine				
Protection class acc. to DIN EN 60529 ISO 20653				IP 65, 67 or 69 (depending on electr. connection) IP 6K9K				
Other data								
Electrical connection				Various male connectors e.g.: M12x1, Packard Metri Pack, Deutsch DT 04, AMP Superseal, AMP Junior Power Timer, jacketed cable				
Supply voltage when applied acc. to UL specifications				8 30 V DC 12 30 V DC for output signal 0 10 V 5 V ± 5 % for ratiometric output signal - limited energy - acc. to 9.3 UL 61010; Class 2; UL 1310/1585; LPS UL 60950				
Residual ripple of supply vol	tage			≤ 5 %				
Current consumption				max. 22 mA total				
Life expectancy				> 10 million cycles, 0 100 % FS				
Weight				~ 55 g				
Note: Reverse polarity pr protection are prov FS (Full Scale) = re B.F.S.L. = Best Fit	ided. elative Straigh	to complet nt L ine			voltage, o	verride an	d short cir	cuit
 Other seal mater -25 °C with FKM Environmental co 	seal, -4	10 °C on re		1010 1. 02	2 2 No 61(10.1		

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Dimensions:



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.

Order details:

The electronic pressure transmitter HDA 8700 has been specially developed for OEM customers and is available for minimum order quantities of 500 units per type.

For precise specifications, please contact the Sales Department of HYDAC ELECTRONIC.

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