



HD3604T..., HD36V4T... RELATIVE PRESSURE TRANSMITTERS

HD3604T... and HD36V4T... are pressure transmitters with microprocessor and current (4...20mA) or voltage (0...5V, 1...5V or 0...10V) output, respectively. The sensor, piezoresistive, is insulated and allows gas and liquid pressure measurement over a wide range of temperatures.

The measured pressure is relative to atmosphere. The different models cover the scales from 100mbar to 600bar.

The case is in stainless steel 20mm diam. and encloses sensor and electronics: in order to connect it to a pressurized system, it is supplied with a $\frac{1}{4}$ " BSP threaded connection with a 22mm hex fastening ring.

For electrical connections, three different solutions are provided:

- A male connector DIN 43650A,
- · A male connector DIN 43650C,
- A circular male connector DIN 41524.

The connectors are fitted with a three or four pole free female socket with fairlead (according to the models).

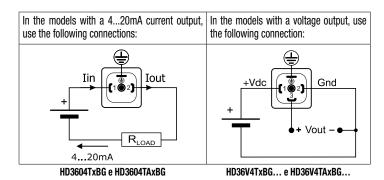
All transmitters are factory calibrated at three points. The use of a microprocessor circuit allows memorizing the sensor response curve and correcting any possible non linearity. No calibration is requested to the user.

Technical characteristics		Notes
Output signal	420mA	HD3604TxBG models
	05V	HD36V4TxBG1 models
	15V	HD36V4TxBG2 models
	010V	HD36V4TxBG3 models
Bottom scale pressure range	100, 200, 400, 600 mbar 1, 2,5 bar 4, 6, 10, 16, 25, 40, 60, 100, 160, 250,	
	400 and 600 bar relative	
Overpressure limit	Twice the nominal value	
Sensor	Piezoresistive	
Surface in contact with fluid	Steel 17-4PH	
Fluid in contact with membrane	Gas or liquid	
Operating temperature	-40 +125°C	
	1030Vdc	
Power supply voltage	1530Vdc	HD36V4TxBG 3 models with 010Vdc output
Absorption	< 4mA	In the models with voltage output
Accuracy	≤ ±0.25%F.S.	
Temperature effects	±1% span ±1% offset	For a variation of 100°C
Mechanical stability	< 0.1%F.S.	After 106 cycles 0f.s.
Response time	<5ms	
Connection to the system under pressure	1/4"BSP male	
Electric connection	Male connector 3 or 4 poles DIN 43650A + female connector DIN 46350A	HD3604TxBG and HD- 36V4TxBG models
	Male connector 3 or 4 poles DIN 43650C + female connector DIN 46350C	HD3604T A xBG and HD- 36V4T A xBG models
	Male connector 3 or 4 poles DIN 41524 + female connector DIN 41524	HD3604T B xBG and HD- 36V4T B xBG models
Case material	Stainless steel AISI 304	
Dimensions	Ø 20x95mm	Connector included
Weight	80g	
Load resistance	$R_{Lmax} = 636\Omega \text{ a 24Vdc}$ $R_{Lmax} = \frac{(Vdc - 10)}{22mA}$	For the models with current output 420mA HD3604T (see fig.1)
	R _L ≥ 10KΩ	For the models with voltage output HD36V4T
Protection degree	IP65	With connector correctly engaged.

Installation and connections

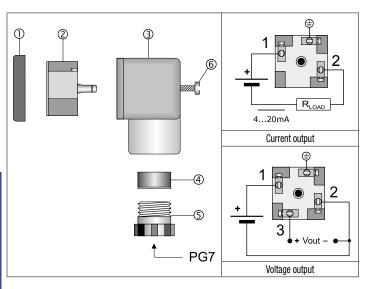
The HD3604T... and HD36V4T... transmitters can be installed in any position. Make the electrical connection to the free female connector as indicated in the diagrams of the following table.

Transmitter model	Connection diagram of the transmitter pin (front view)	Notes
HD3604TxBG HD3604T A xBG	Iin [10ut	If the connection cable is shielded, connect the shield to pin
HD36V4TxBG HD36V4T A xBG	+Vdc (1 2) Gnd +Vout	Use a shielded connection cable and connect the shield to the pin



DIN 43650A and DIN 43650C connectors

To make the electrical connections you need to open the female connector.



Remove the gasket ①. Unscrew the fairlead ⑤ and take off the gasket ④. Use a screwdriver to pry and take off the connecting terminal ②. Make the connections as shown in the figure: if present, the shielded cable braid must be connected to the earth terminal. Once the connections are made, close the connector.

Transmitter calibration

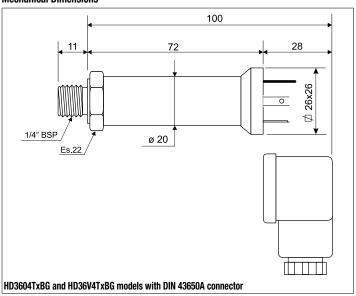
The transmitters are calibrated at three points; no calibration is requested to the user.

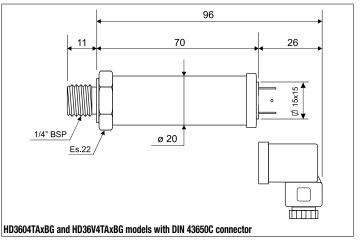
Warnings

The pressure transmitter has a male threaded ¼" BSP. During installation, take special care to the pressure resistance of the junction. Use any appropriate seals.

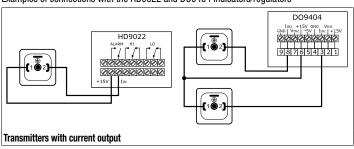
Great attention must be placed in the installation of transmitters in the pressure vessel or piping. Attention must be paid to the choice of full scale flow rate for an error, in addition to permanently damage the transmitter, can cause personal injuries and property also severe. Always insert, before the first transmitter, a key stop and make sure that the plant will not occur abnormal and unexpected peaks or surges of fluid under pressure.

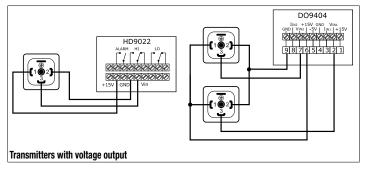
Mechanical Dimensions





Examples of connections with the HD9022 and D09404 indicators/regulators





Order codes:

