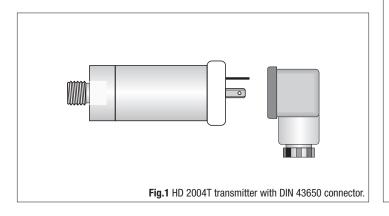


HD 2004T..., HD 20V4T... PASSIVE PRESSURE TRANSMITTERS WITH DIN 43650 CONNECTOR

HD 2004T and **HD 20V4T** are microprocessor pressure transmitters, with current output ($4\div20$ mA) the first and voltage output ($0\div5V$, $1\div5V$ or $0\div10V$) the second.

The sensitive element consists of a jumper of piezoresistive resistors deposited on a ceramic membrane. At the variation of pressure, the bending of this membrane causes a linear and proportional variation of the bridge resistances.

The stainless steel case (30 mm diam.) includes both the sensor and the electronics. For the connection to the pressure there will be a part threaded $\frac{1}{4}$ "BSP and a tax on container for a key 27 mm. For the electrical connection is present on the side, a male connector pin Faston three or four (depending on model) with the corresponding female socket and PG7 cable gland to DIN 43650.



Technical Specifications

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Output Signal	Current	420 mA (HD 2004T)	
	Voltage	05V (HD 20V4T 1), 15V (HD 20V4T 2), 010V (HD 20V4T 3)	
Full scale pressure		200, 400, 600 relative mbar 1, 2.5, 4, 6, 10, 16, 25, 40, 60, 100, 160, 250, 400 and 600 absolute bar 1, 2.5, 4, 6, 10, 16, 25, 40, 60 relative bar	
Overpressure limit	Up to 250 bar	Twice the rated value	
	400 bar	750 bar	
	600 bar	750 bar	
Sensor		Piezoresistive	
Material in contact with the measuring fluid		Alumina, stainless steel for models up to 1bar.	
Fluid in contact with the diaphragm		Gas or liquids	
Operating temperatu	ire	-30+80°C	
Power supply voltage		1030Vdc (1530Vdc for models having 010Vdc output)	
Accuracy (linearity, hysteresis and repeatability)		≤ ±0.25%F.S.	
Gain sensitivity to temperature changes (@ 25°C)		$\leq \pm 0.008$ %F.S. between 0 and 70°C $\leq \pm 0.012$ %F.S. between -30°C and 0°C and between 70°C and 80°C	
Zero sensitivity to temperature changes (@ 25°C)		≤ ±0.04%F.S.	
Connection to plant	under pressure	1/4"BSP male	
Electrical connection		3/4 -pole faston male connector + DIN 43650A female connector (outlet)	
Housing		AISI 304 stainless steel	
Size		Ø 30x100 mm (included DIN 43650 connector)	
Weight		190 g	
Load resistance for HD 2004T models (see Fig.2)		$R_{Lmax} = 636 \Omega \text{ a } 24 \text{ Vdc} \qquad R_{Lmax} = \frac{(\text{Vdc} - 10)}{22\text{mA}}$	
Load resistance for HD 20V4T models		$R_L \ge 10k\Omega$	
Response time		5 ms (Time required to achieve the 63% of the final variation)	
Protection class		IP54	

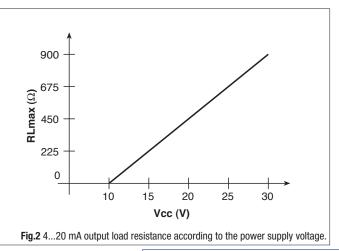
Installation and connections

HD 2004T... and HD 20V4T... transmitters can be installed in any position. Open the female connector to make the electrical connections (see fig.3).

Transmitter Calibration

The transmitter output is factory-calibrated, thus no user's operation is generally requested. Current output transmitters supply 4 mA on the start of scale and 20 mA at full scale;

0...5V, 1...5V and 0...10V voltage output transmitters generate 0V or 1V at start of scale pressure and 5V or 10V at full scale pressure.



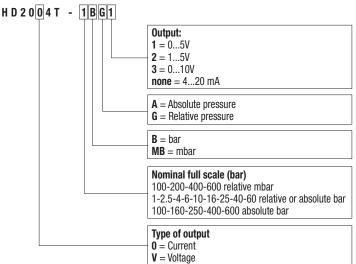
HD 2004T... and HD 20V4T... series pressure transmitters can be connected to Delta 0hm HD 9022 single input configurable indicators / regulators, to DO 9404 double input ones or led indicator HD2601V.1.

Warnings

The pressure transmitter has a male threaded 1/4" 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.

ORDER CODES



	Output: 1 = 05V
	2 = 15V
	3 = 010V
	none = 420 mA
	A = Absolute pressure
	G = Relative pressure
	B = bar
	MB = mbar
	Nominal full scale (bar)
	100-200-400-600 relative mbar
	1-2.5-4-6-10-16-25-40-60 relative or absolute bar
	100-160-250-400-600 absolute bar
	Type of output
	0 = Current
	V = Voltage
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Remove the gasket 1. Unscrew the cable gland 5 and take the gasket 4 away. Using a screwdriver, lever and remove the terminal carrier 2. Follow the indications shown on figure 4 to make the connections: the ground terminal has to be connected with the braid of the screened cable. After carrying out the connections, close again the connector. Mount the HD 2004T... or the HD 20V4T... : the transmitters have a 1/4" BSP male threaded connection. By mounting, take care that the fitting is properly pressure-sealed and, if necessary, use adequate seals. Apply the connector to the transmitter and fix it with the provided 6 screw.

FULL SCALE	RELATIVE Ref.: atmospheric pressure	ABSOLUTE Ref.: vacuum	ABSOLUTE Ref.: 1 bar s.g.
100 mbar	HD 204T-100MBG		
200 mbar	HD 204T-200MBG		
400 mbar	HD 204T-400MBG		
600 mbar	HD 204T-600MBG		
1 bar	HD 204T- 1 BG	HD 204T- 1 BA	
2.5 bar	HD 204T- 2 B5G	HD 204T- 2 B5A	
4 bar	HD 204T- 4 BG	HD 204T- 4 BA	
6 bar	HD 204T- 6 BG	HD 204T- 6 BA	
10 bar	HD 204T- 10 BG	HD 204T- 10 BA	
16 bar	HD 204T- 16 BG	HD 204T- 16 BA	
25 bar	HD 204T- 25 BG	HD 204T- 25 BA	
40 bar	HD 204T- 40 BG	HD 204T- 40 BA	
60 bar	HD 204T- 60 BG	HD 204T- 60 BA	
100 bar			HD 204T- 100 BA
160 bar			HD 204T- 160 BA
250 bar			HD 204T- 250 BA
400 bar			HD 204T- 400 BA
600 bar			HD 204T- 600 BA

