

# Pressure / Vacuum Transmitter

**Model : HD2004T...**

HD 2004T and HD 20V4T are microprocessor pressure transmitters, the first one having a current output (4÷20mA) and the second one a voltage output (0÷5V or 0 ÷ 1 0V).

The sensitive element consists of a bridge of piezoresistive resistances laid on a ceramic diaphragm. When changing the applied pressure, the bending of this diaphragm causes a linear and proportional change of the bridge resistances. The stainless steel case (30 mm diam.) includes both the sensor and the electronics : unscrewing the base equipped with faston connectors, you access the keys to adjust the upper and the full scale. A LED helps the user during the calibration procedure.

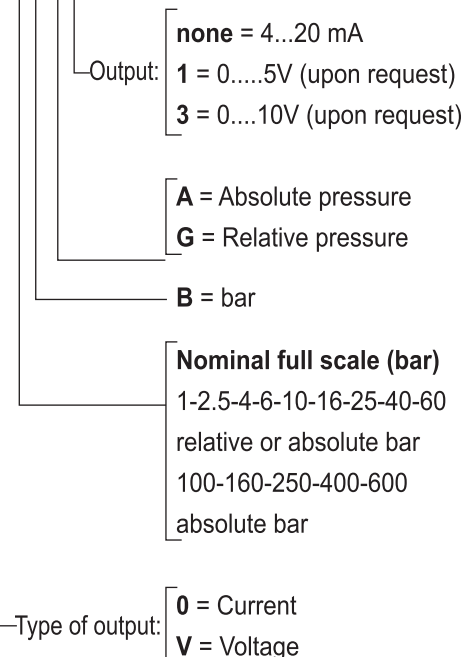
## Technical Specifications :

Output Signal	Current	4...20 mA (HD 2004T...)
	Voltage	0...5V (HD 20V4T...1) 0...10V (HD 20V4T...3)
Pressure range		<b>1,2,5,4,6,10,16,25,40,60,100,160, 250,400 and 600 absolute bars</b> <b>1,2,5,4,6,10,16,25,40,60 relative bars</b>
Over pressure limit	Up to 250 bars	Twice the rated value
	400 nominal bars	750 bars
	600 nominal bars	750 bars
Sensor		Piezoresistive
Material in contact with the measuring fluid		Alumina
Fluid in contact with the diaphragm		Gas or liquids
Operating temperature		-30... + 80°C
Power supply voltage		10...30Vdc (15...30Vdc for models having 0...10Vdc output)
Span and full scale adjustment		±10%
Accuracy (linearity, hysteresis and repeatability)		≤ ± 0.25% F.S.
Gain sensitivity to temperature changes (@ 25°C)		≤ ± 0.008%F.S. between 0 and 70°C
		≤ ± 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.
Process connection		1/4" BSP male
Electrical connection		3/4 -pole faston male connector + DIN 46350 female connector (outlet)
Housing made of		AISI 304 stainless steel
Size		φ 30 × 90mm (included DIN 43650 connector)
Weight		190 g
Load resistance for HD 2004T models... (see Fig.2)		$R_{Lmax} = 640 \Omega$ a 24 Vdc $R_{Lmax} = \frac{Vdc-10}{22mA}$
Load resistance for HD 20V4T models...		$R_L \geq 10K$
Response time		1 sec. (Time required to achieve the 63% of the final variation)
Protection class		IP54



## Order Codes

HD2004T-1BG1



FULL SCALE	RELATIVE Ref.: atmospheric pressure	ABSOLUTE Ref. : vaccum	ABSOLUTE Ref. : 1 bar s.g.
1 bar	HD 20...4T-1 BG...	HD 20...4T-1 BA...	
2.5 bar	HD 20...4T-2 B5G...	HD 20...4T-2 B5A...	
4 bar	HD 20...4T-4 BG...	HD 20...4T-4 BA...	
10 bar	HD 20...4T-10 BG...	HD 20...4T-10 BA...	
16 bar	HD 20...4T-16 BG...	HD 20...4T-16 BA...	
25 bar	HD 20...4T-25 BG...	HD 20...4T-25 BA...	
40 bar	HD 20...4T-40 BG...	HD 20...4T-40 BA...	
100 bar			HD 20...4T-100 BA...
160 bar			HD 20...4T-160 B5A...
250 bar			HD 20...4T-250 BA...
400 bar			HD 20...4T-400 BA...
600 bar			HD 20...4T-600 BA...



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