

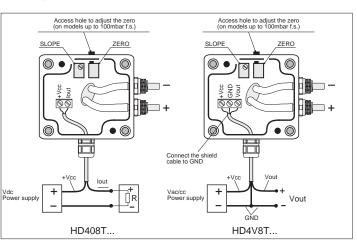


HD 408T..., HD 4V8T... RELATIVE OR DIFFERENTIAL ATMOSPHERIC PRESSURE TRANSMITTERS

The HD408T, HD4V8T are analog output relative or differential atmospheric pressure transmitters; they are used in all those applications where non corrosive air or gas need to be monitored, with pressure fields from 10 mbar to 2000 mbar. The piezoresistive sensor gives extremely precise and stable measurements of the applied differential pressure, with excellent repeatability, low hysteresis, and very good temperature stability.

The output signal of the sensor is conditioned to provide either a current output (model HD408T) or a voltage output (model HD4V8T) linearly proportional to the applied differential pressure.

The transmitters are ready to use as they have been calibrated at the factory. They are used to monitor clean room barometric pressure, to control filters, to measure flows (employment with the Pitot tube), for packing and packaging machines, and to control ventilation.



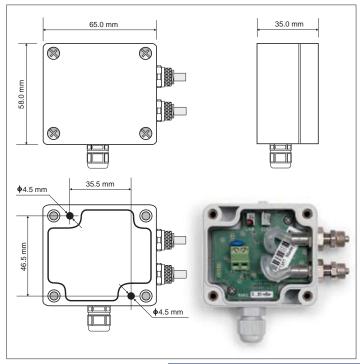
TECHNICAL INFORMATION @ 20°C AND 24Vdc

	HD408T	HD4V8T			
Sensor	Piezoresistive				
Measurement range	10, 20, 50, 100, 200, 500, 1000, 2000 mbar ±10, ±20, ±50, ±100, ±200, ±500, ±1000, ±2000 mbar				
Output signal	4 20 mA	4 20 mA 0 10 Vdc standard; 0 5 Vdc, 1 5 Vdc on request			
Precision	±0.5 % F.S. @ 20°C				
Resolution	Infinite				
Temperature effects	$<$ 1% F.S., zero; $<$ 1% F.S., span from -20° C to $+60^{\circ}$ C (from -4° to 140°F)				
Time stability	< 1 % F.S. over 6 months at 20°C				
Startup time	1 sec. at 99% of full scale reading				
Response time	< 10 ms until it reaches the stated precision by applying a step pressure level				
Power	8 30 Vdc	16 40 Vdc or 24 Vac with output 0 10 Vdc 10 40 Vdc or 24 Vac with outputs 0 5 Vdc, 1 5 Vdc			
Absorption	< 4 mA	20 mA @ 20°C, 24 Vdc			
Load resistance	$R_{Lmax} = 727 \Omega a 24Vcc$ $R_{Lmax} = \frac{Vdc-8}{22 \text{ mA}}$	Minimum input resistance 10kΩ			
Operating temperature	-20 +60°C				
Storage temperature	-20 +80°C				
Compatible elements	air and dry gases only				
Overpressure limit	350mbar for the models 10, 20, 50, 100 mbar 3X F.S. for all the other models				
Pressure connection	With Ø 5mm flexible tube				
Electric connection	Screw terminal box				
Case	MACROLON				
Case size	64x58x34				
Protection degree	IP67				

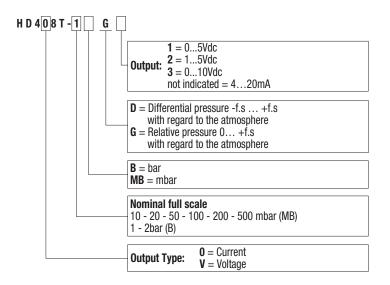
INSTALLATION

In all models the sensor and electronic parts are housed in a robust case in MACROLON with IP67 degree of protection. Opening the cover, the holes that allow to secure the transmitter's base directly to a panel or a wall, become available. HD408T, HD4V8T can be mounted in any position, the deviation of the zero due to the mounting position is in the worst case (10 mbar range) less than 1% F.S. and can be corrected with an appropriate regulating potentiometer, that can be accessed from outside, for pressures up to 100mbar.

MECHANICAL DIMENSIONS



ORDERING CODES



	RANGE	OUTPUT 420mA	OUTPUT 010Vdc	OUTPUT O5Vdc	OUTPUT 15Vdc
RELATIVE	010mbar	HD408T-10MBG	HD4V8T-10MBG3	HD4V8T-10MBG1	HD4V8T-10MBG2
	020mbar	HD408T-20MBG	HD4V8T-20MBG3	HD4V8T-20MBG1	HD4V8T-20MBG2
	050mbar	HD408T-50MBG	HD4V8T-50MBG3	HD4V8T-50MBG1	HD4V8T-50MBG2
	0100mbar	HD408T-100MBG	HD4V8T-100MBG3	HD4V8T-100MBG1	HD4V8T-100MBG2
	0200mbar	HD408T-200MBG	HD4V8T-200MBG3	HD4V8T-200MBG1	HD4V8T-200MBG2
	0500mbar	HD408T-500MBG	HD4V8T-500MBG3	HD4V8T-500MBG1	HD4V8T-500MBG2
	01000mbar	HD408T-1BG	HD4V8T-1BG3	HD4V8T-1BG1	HD4V8T-1BG2
	02000mbar	HD408T-2BG	HD4V8T-2BG3	HD4V8T-2BG1	HD4V8T-2BG2



Examples of connections with the HD9022 and D09404 indicators/regulators

