

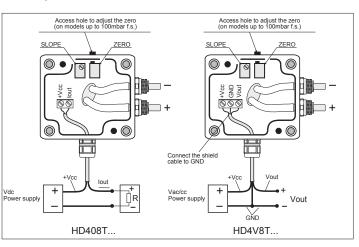


HD 408T..., HD 4V8T... RELATIVE OR DIFFERENTIAL ATMOSPHERIC PRESSURE TRANSMITTERS

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.



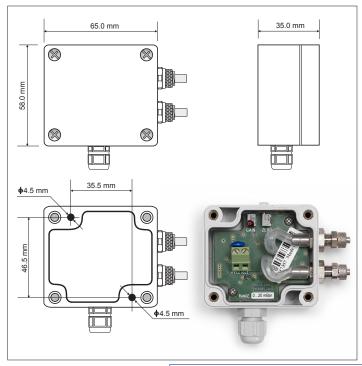
TECHNICAL INFORMATION @ 20°C AND 24Vdc

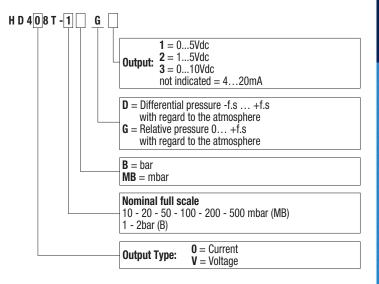
	HD408T	HD4V8T		
Sensor	Piezoresistive			
Measurement range	10, 20, 50, 100, 200, 500, 1000, 2000 mbar ±10, ±20, ±50, ±100, ±200, ±500, ±1000, ±2000 mbar			
Output signal	4 20 mA	0 10 Vdc standard; 0 5 Vdc, 1 5 Vdc on request		
Precision	±0.5 % F.S. @ 20°C			
Resolution	Infinite			
Temperature effects	< 1% F.S., zero; <1% F.S., span from -20°C to +60°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 40 Vdc or 24 Vac with outputs 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

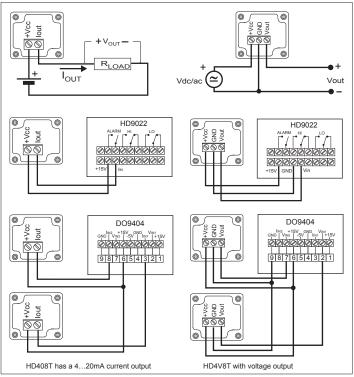




	RANGE	OUTPUT 420mA	OUTPUT 010Vdc	OUTPUT O5Vdc	OUTPUT 15Vdc
	010mbar	HD408T-10MBG	HD4V8T-10MBG3	HD4V8T-10MBG1	HD4V8T-10MBG2
	020mbar	HD408T-20MBG	HD4V8T-20MBG3	HD4V8T-20MBG1	HD4V8T-20MBG2
	050mbar	HD408T-50MBG	HD4V8T-50MBG3	HD4V8T-50MBG1	HD4V8T-50MBG2
RELATIVE	0100mbar	HD408T-100MBG	HD4V8T-100MBG3	HD4V8T-100MBG1	HD4V8T-100MBG2
RELA	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

DIFFERENTIAL	-1010mbar	HD408T-10MBD	HD4V8T-10MBD3	HD4V8T-10MBD1	HD4V8T-10MBD2
	-2020mbar	HD408T-20MBD	HD4V8T-20MBD3	HD4V8T-20MBD1	HD4V8T-20MBD2
	-5050mbar	HD408T-50MBD	HD4V8T-50MBD3	HD4V8T-50MBD1	HD4V8T-50MBD2
	-100100mbar	HD408T-100MBD	HD4V8T-100MBD3	HD4V8T-100MBD1	HD4V8T-100MBD2
	-200200mbar	HD408T-200MBD	HD4V8T-200MBD3	HD4V8T-200MBD1	HD4V8T-200MBD2
	-500500mbar	HD408T-500MBD	HD4V8T-500MBD3	HD4V8T-500MBD1	HD4V8T-500MBD2
	-10001000mbar	HD408T-1BD	HD4V8T-1BD3	HD4V8T-1BD1	HD4V8T-1BD2
	-20002000mbar	HD408T-2BD	HD4V8T-2BD3	HD4V8T-2BD1	HD4V8T-2BD2

Examples of connections with the HD9022 and D09404 indicators/regulators









HD 4V8T Baro BAROMETRIC TRANSMITTER

Barometric transmitter to wall mount for indoor use, with 0...1 Vdc analog output. Measuring range 600...1100mbar. Power supply 10...40 Vdc. Working temperature -30°C... 60°C. Suitable for installation in the housings for weather stations HD32.35, HD32.35FP, HD32.36 and HD32.36FP.

Technical specifications

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Piezoresistive				
600÷1100 mbar				
0÷1Vdc				
±0.5 mbar, @ 20°C				
Infinite				
<1% F.S., zero;				
<1% F.S., span				
from -20°C to +60°C				
(-4°F to 140°F)				
<0.25% F.S. at 6 months at 20°C				
1 sec. Al 99% of the measure				
<200ms after pressure stabilization				
10÷40 Vdc				
< 4 mA				
-30 +60°C				
Dry air and gases, non-corrosive				
2 bar - 30 psi				
65mm x 58mm x 35mm				

