

HD 9408T BARO HD 9408TR BARO HD 9908T BARO





HD 9408T BARO, HD 9408TR BARO and **HD 9908T BARO** are analog output electronic barometers. They use a piezoresistive sensor element which gives extremely accurate and stable measurement of the atmospheric pressure and assures excellent repeatability, low hysteresis and very good temperature stability. The output signal of the sensor is conditioned to provide a voltage or a current output linearly proportional to the barometric pressure. The transmitters are ready as they have been calibrated at the factory. A zero adjustments potentiometer is available for offset to station elevation.

HD9408T BAR0 requires a continuous dc power supply, its low power consumption (< 4 mA) makes it ideal for portable and remote battery or solar powered applications. It is available in different kinds of analog output: $0 \div 1$ Vdc, $(0 \div 5$ Vdc $1 \div 5$ Vdc, $1 \div 6$ Vdc, $0 \div 10$ Vdc on request) or $4 \div 20$ mA (two wires).

HD 9408TR BAR0 offers superior temperature performance: the internal circuitry allows the sensor to work at constant temperature so that it achieves accurate temperature compensation over the whole range from -40°C to +60°C. **HD 9408TR BAR0** requires a continuous dc power supply and a differential cabling connection to achieve best results. It is available in different output versions: $0 \div 1 \text{ Vdc}$, $(0 \div 5 \text{ Vdc } 1 \div 5 \text{ Vdc}$, $1 \div 6 \text{ Vdc}$, $0 \div 10 \text{ Vdc}$ on request).

HD 9908T BAR0, unlike the other models, is equipped with a display showing the pressure measurements, an analog output $0 \div 20$ mA, $4 \div 20$ mA, $0 \div 1$ V and $0 \div 5$ V $(0 \div 10$ V on request) configurable by the customer and with an ON/OFF relay output with programmable alarm threshold.

HD 9908T BARO requires a 24 Vac (or 230 Vac on request) power supply.

HD 9408T BARO, HD 9408TR BARO and **HD 9908T BARO** are low cost and excellent performance solutions for meteorological applications, environmental monitoring systems, metrological and environmental data logging, altitude applications, barometric pressure compensation in the performance of internal combustion engine, cleanroom barometric pressure compensation, testing of vehicle emissions.

HOUSING AND INSTALLATION

In all models the sensor electronics are housed in a sturdy polycarbonate blend with IP67 protection. Opening the lid holes are available that allow you to secure the base of the transmitter directly to a panel or a wall. The measurement accuracy is independent of the position of the transmitter. However, it is advisable to mount the transmitter so that the sensor is facing down to reduce dust and dirt on the filter. If the installation is in an open environment is recommended to use a special static port to minimize errors caused by the wind flow on the input pressure.

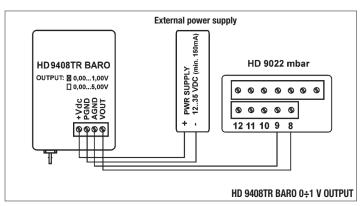
CONNECTION DIAGRAM AND OPERATION

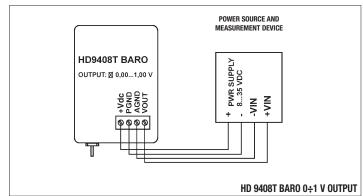
- Make the power connections for the HD 9908T BARO.
- Make the connections for the relay output, the relay contact is free.
- Select the analog output 0÷20 mA, 4÷20 mA, 0÷1 V, 0÷5 V by means of the jumper.
- Switch on the instrument, press the PUSH button and turn the SET trimmer to set the desired threshold value between 800 and 1100 mbar; the set value is shown on the LCD display.
- Using the trimmer _____, set the desired HYS (=hysteresis) value between 5 and 50 mbar.
- The instrument will now indicate the barometric pressure; HI led, LO led or ALARM led and ALARM relay will switch on if one the following cases occurs (see table 1).

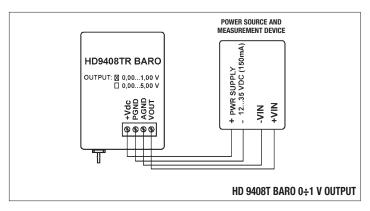
NOTE: the ALARM led comes on to indicate that the relay is energized and the contact is closed.

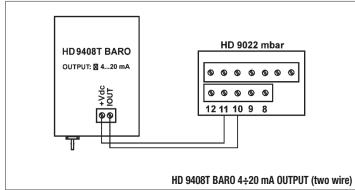
 Once installation is completed, check that the cover is tightly closed; the same applies to the grommets.

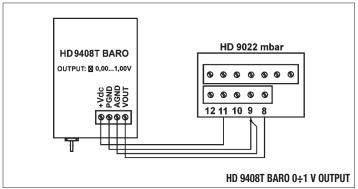
TABLE 1	HI	L0	LED ALARM
MEASURE > SET, MEASURE < SET + HYS	ON	0FF	0FF
MEASURE > SET, MEASURE > SET + HYS	ON	0FF	ON
MEASURE < SET, MEASURE > SET - HYS	0FF	ON	0FF







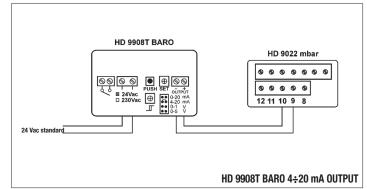


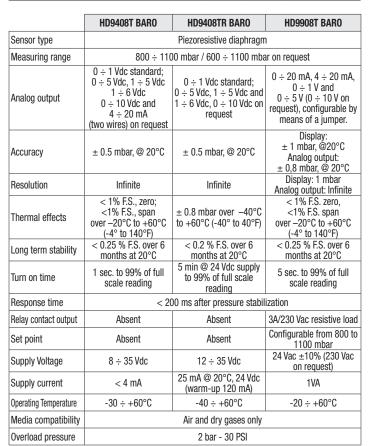


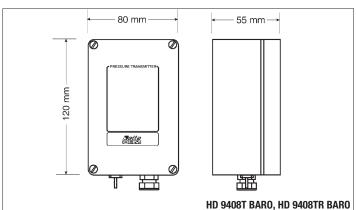
0FF

ON

ON

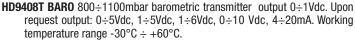








MEASURE < SET, MEASURE < SET - HYS



HD9408TR BARO 800÷1100mbar barometric transmitter output 0÷1Vdc. Upon request output 0÷5Vdc, 1÷5Vdc, 1÷6Vdc, 0÷10 Vdc. Temperature working range -40°C ÷ +60°C, heated sensor

HD9908T BARO 800÷1100mbar digital barometric transmitter with LCD indication. Outputs: $0\div20$ mA, $4\div20$ mA, $0\div1$ Vdc, $0\div5$ Vdc. Working temperature range -20° C \div $+60^{\circ}$ C.

