

TPDPT8 Differential Air Pressure Transmitter (125 & 500)



The TPDPT8 range of Air Differential Pressure sensors are designed to offer increased accuracy and stability within HVAC applications such as ventilation systems, fume cupboards, operating theatres, fan speed control, air pressure monitoring and leak detection systems.

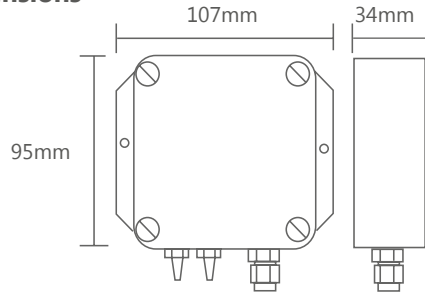
See TPDPT8-HA datasheet for further product options including: positive and negative ranges, display option or IP65 housing.

See TPDPT8-HA-COM datasheet for details on BACnet MS/TP and Modbus Sensor options

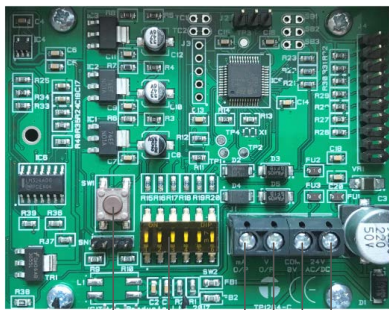
Features

- 24V AC/DC Supply
- Multiple Range Options
- No Long Term Drift
- No Temperature Shift
- Zero Calibration Touch Button
- 0-5V or 0-10V with 4-20mA outputs

Dimensions



Connections



- Zero pressure calibration push button
- DIP Switches for Range Selection
- 24V AC/DC 0V
- V Output (load 3mA)
- mA output (load 100 Ω to 500 Ω)

Specification

	TPDPT8/125	TPDPT8/500
Selectable Ranges	0-25, 0-50, 0-100, 0-125	0-200, 0-300, 0-400, 0-500
+/- Range Selection	No	No
Power Supply	24V AC/DC +/-15%	24V AC/DC +/-15%
Power Consumption	100mA	100mA
Outputs	0-5V, 0-10V with 4-20mA	0-5V, 0-10V with 4-20mA
Accuracy @ 25°C	+/-5% of selected range	+/-5% of selected range
Long Term Drift	None	None
Shift due to Temperature	None	None
Response Time	5ms typical	5ms typical
Operating Temperature	-20 to +70°C	-20 to +70°C
Operating Humidity	0-80% Non-condensing	0-80% Non-condensing
Burst Pressure	> 5bar	> 5bar
Enclosure	Flame Retardant ABS IP41	Flame Retardant ABS IP41
IP65 Option	No	No
Display Option	No	No
Part Codes	TPDPT8/125	TPDPT8/500

Range Selection TPDPT8/125

Range	SW1	SW2	SW3	SW4	SW5	SW6
0-25Pa	ON	OFF	ON	ON	ON	ON
0-50Pa	ON	OFF	ON	OFF	ON	ON
0-100Pa	ON	OFF	ON	ON	OFF	ON
0-125Pa	ON	OFF	ON	OFF	OFF	ON
For +/- Range Selection SW3 OFF (only available on HA variants) For 0-5V output Range Selection SW6 OFF						

Range Selection TPDPT8/500

Range	SW1	SW2	SW3	SW4	SW5	SW6
0-200Pa	ON	OFF	ON	ON	ON	ON
0-300Pa	ON	OFF	ON	OFF	ON	ON
0-400Pa	ON	OFF	ON	ON	OFF	ON
0-500Pa	ON	OFF	ON	OFF	OFF	ON
For +/- Range Selection SW3 OFF (only available on HA variants) For 0-5V output Range Selection SW6 OFF						

Note:

- FSS is the full scale range of the sensor which covers from the stated lowest -minus value to the highest +plus value.
- Non-linearity and Hysteresis is quoted as the best line fit for offset pressure, full scale pressure and 1/2 full scale pressure.
- Pressure Overload is the maximum pressure which may be applied without causing damage to the sensing element
- This product is for use on dry gases applications only