

TPDPT8-HA High Accuracy 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.

With no long term drift, temperature shift and an accuracy of 0.2% accuracy near zero, the TPDPT8-HA sensors offer extremely high levels of stability and accuracy.

All sensors are provided with a zero pressure calibration button and include options for +/- range selection for low pressure applications, LCD display and IP65 options.

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

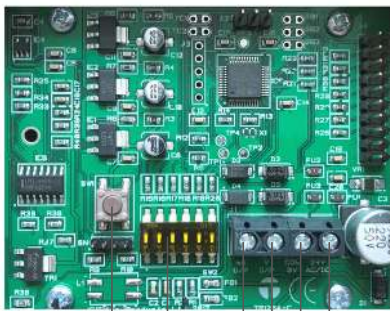
Features

- 24V AC/DC Supply
- Multiple Range Options
- +/- Range Selection Option
- No Long Term Drift
- No Temperature Shift
- Better than 0.2% accuracy near zero
- Zero Calibration Touch Button
- 0-5V or 0-10V with 4-20mA outputs
- LCD Display option / IP65 enclosure option

Options



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)

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

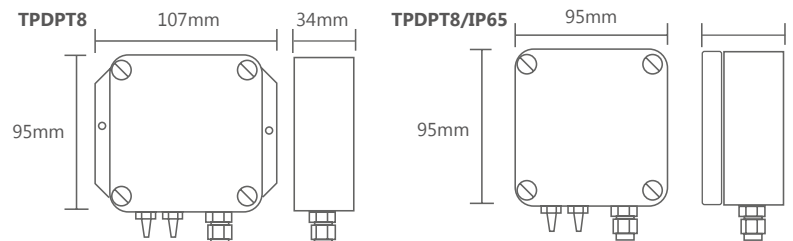
Range Selection TPDPT8/500

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

Specification

	TPDPT8/125-HA	TPDPT8/500-HA
Selectable Ranges	+/- 0-25, 0-50, 0-100, 0-125	+/- 0-200, 0-300, 0-400, 0-500
+/- Range Selection	Yes	Yes
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	3.5% of reading + 0.15Pa	3.5% of reading + 0.3Pa
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 (IP65 option)	Flame Retardant ABS IP41 (IP65 option)
Part Codes	TPDPT8/125-HA (Standard) TPDPT8/125-HA-IP65 (IP65 Option) TPDPT8/125-HA-D (Display Option)	TPDPT8/500-HA (Standard) TPDPT8/500-HA-IP65 (IP65 Option) TPDPT8/500-HA-D (Display Option)



Important
This is an IP65 rated enclosure
DO NOT DRILL Use fixing holes provided