

AIR VELOCITY TRANSMITTER

TPAVT8 FEATURES

- Accurate velocity measurement
- 0-10V with 4-20mA outputs with input protection
- Fully calibrated
- Compatible with multi-point velocity probes



SPECIFICATION

	TPAVT8/10	TPAVT8/28
Selectable Range:	0-5 m/s, 0-10m/s (0-1000 fpm, 0-2000 fpm)	0-15 m/s, 0-20 m/s, 0-28 m/s (0-3000, 0-4000, 0-5500 fpm)
Power Supply:	24V AC/DC +/- 15%	
Power Consumption:	Standard: 100mA With Display: 130mA (max)	
Min Operating Measurement:	0.45 m/s (88 fpm)	0.5 m/s (98 fpm)
Outputs:	0-5V, 0-10V with 4-20mA	
Output Resolution:	1% of output range	
Accuracy @ 25°C:	+/- 3% of measured value	+/- 4.5% of measured value
Warm Up Time:	0.5 seconds	
Response Time:	0.5 seconds	
Operating Temperature:	-20 to +70°C	
Operating Humidity:	0-80% Non-condensing	
Pressure Overload:	100K Pa	
Enclosure:	Flame Retardant ABS IP51 (IP65 option available)	
Part Codes:	TPAVT8/10 (Standard) TPAVT8/10/IP65 (IP65 Option) TPAVT8/10/D (Display Option)	TPAVT8/28 (Standard) TPAVT8/28/IP65 (IP65 Option) TPAVT8/28/D (Display Option)

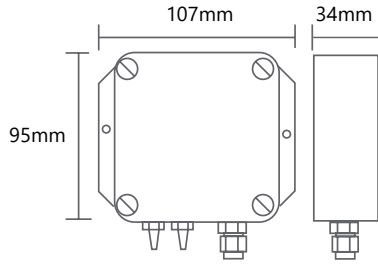
The TPAVT8 Air Velocity Transmitters are designed for applications in ventilation, fan speed control and air velocity control. The TPAVT8 employs a solid state temperature compensated differential pressure cell with microprocessor to provide superior linearity, measurement accuracy and sensitivity.

The TPAVT8 is zero calibrated at the touch of a button and provides selectable ranges with outputs of 0-5V or 0-10V with 4-20mA. There is an optional LCD display which can show the selected range and measured values in m/s or fpm and each sensor is provided with 2 metres of 6mm diameter tube. The TPAVT8 works in conjunction with any velocity probe.

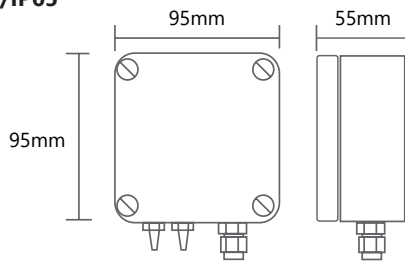


DIMENSIONS

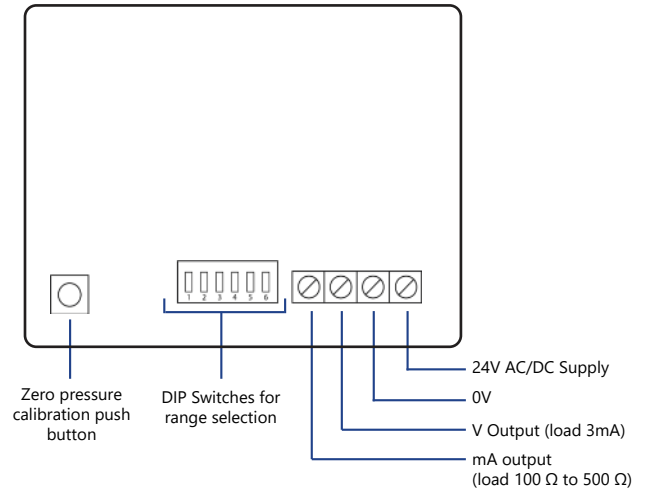
TPAVT8



TPAVT8/IP65



CONNECTIONS



Important

This is an IP65 rated enclosure DO NOT DRILL - use fixing holes provided

RANGE SELECTION

Display (when used)

SW2	Display units
ON	SI unit displayed
OFF	Imperial unit displayed

Velocity

SW4	SW5	TPAVT8/10	TPAVT8/28
ON	ON	0 - 5 m/s	0 - 15 m/s
OFF	ON	0 - 10 m/s	0 - 20 m/s
ON	OFF	0 - 5 m/s	Not used
OFF	OFF	0 - 10 m/s	0 - 28 m/s

Output selection

SW6	Signal output voltage
ON	0 - 10V
OFF	0 - 5V

Note: SW1 to remain OFF at all times

Notes:

1. Non-linearity and hysteresis is quoted as the best line fit for offset velocity pressure, full scale and ½ full scale velocity pressure.
2. Pressure overload is the maximum differential pressure which may be applied without causing damage to the sensing element.
3. Electromagnetic compatibility: complies with EN 50081, EN 50082-2, EN 50090-2-2.
4. CE Mark: In accordance with the EMC guidelines and the low voltage directive.

For further install and setup information please contact technical@titanproducts.com