

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: | 0 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) |

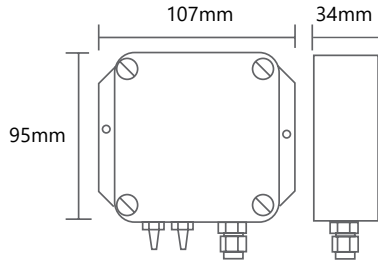
The TPAVT8 Air Velocity Transmitters are designed for applications in ventilation, fan speed control and air velocity control. The TPAVT8 employs a solid state temperature compensated differential pressure cell with microprocessor to provide superior linearity, measurement accuracy and sensitivity.

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.

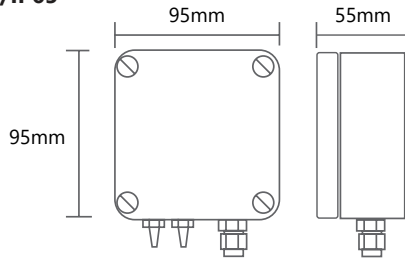


DIMENSIONS

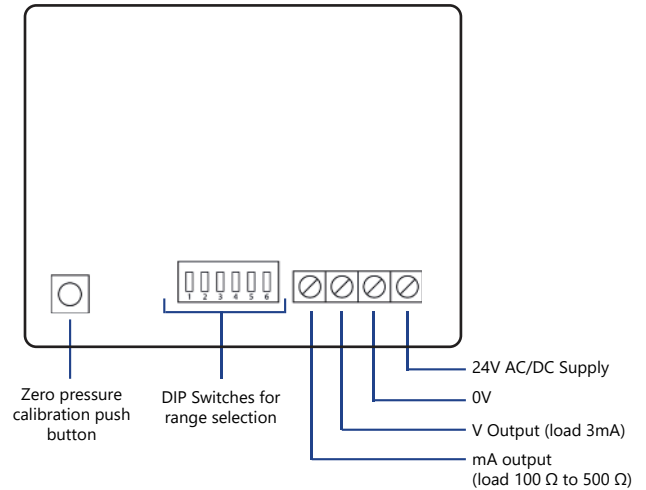
TPAVT8



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