

# TT 570 Micromanometer

## Standard Resolution Specification



Pressure	Velocity
± 0 to 7.50 KPa ± 0 to 30.0 inH <sub>2</sub> O	0.70 to 90.0 m/sec 138 to 17730 ft/min



### Features:

- Back Light
- Area Setting
- Auto Zeroing
- Single Battery
- Average Velocity
- Pitot Tube Factor
- Average Pressure
- Store up to 2500 Readings
- Air Density Correction Factor



The TT 570 Standard Micromanometer with its unique differential capacitance transducers and programmable auto zero facility stores up to three Pitot Tube factors, up to four duct settings and a maximum of 2500 readings. Readings can be downloaded to PC in basic format with optional download software. Weighing 555 g, measuring 45 x 92 x 185 mm and powered by a single battery; the TT 570 Standard Micromanometer is ideal for the modern engineer.

TT 5 series with boot and i Pitot Tube



### Standard Accessories:

- 2 x 6 mm Tubing Adaptors (2)
- 3 m x 2 mm Bore Flexible Tubing (2)
- Calibration Certificate
- Instruction Manual
- Neck Sling
- Soft Lined Case

### Optional Extras:

- dpm Ane™
- Download Software
- Pitot Static Tubes
- Rubber Holster
- Test Set Case

Models				Range / Resolution:			
570	570SV	570CV	570DV	Pressure:			
●	●	●	●	Pa	± 0 to 99.9 Pa	± 100 to 999 Pa	± 1.00 to 7.50 KPa
●		●	●	mmH <sub>2</sub> O	± 0 to 0.999	± 1.00 to 9.99	± 10.0 to 99.9 ± 100 to 750
●		●	●	inH <sub>2</sub> O	± 0 to 0.999	± 1.00 to 9.99	± 10.0 to 30.0
●		●	●	mbar	± 0 to 0.999	± 1.00 to 9.99	± 10.0 to 75.0
	●	●		<b>Velocity :</b> Ellipsoidal	dpm-i	dpm Ane™	
				m/sec	2.00 to 90.0	0.70 to 30.0	0.70 to 50.0
			●	ft/min	394 to 17730	138 to 5905	138 to 9842

**Accuracy:** **Pressure at 20°C, Velocity (with Ellipsoidal Pitot Static Tube at 16°C, 1000 mbar):**  
 Readings < 100 counts ± 2 counts. Readings > 100 counts ± 1% of reading ± 1 count.  
**Velocity with dpm-i Pitot Tube at 16°C, 1000 mbar (PT factor set at 0.838):**  
 ± 3% of reading or ± 0.05 m/sec (10 ft/min) ± 1 count. Whichever is greater.  
**Velocity with dpm Ane™ at 16°C, 1000 mbar (PT factor set at 0.843):**  
 Readings up to 8 m/sec (1575 ft/min) ± 1% of reading ± 0.03 m/sec.  
 Readings from 8 to 50 m/sec (1575 to 9842 ft/min) ± 1 m/sec (197 ft/min)

#### General Specifications:

**Recommended Operational Limits:** 0° to 50°C (32° to 123°F)

**Span Stability versus Temperature:** 0.1% of range in use per °C (per 2°F)

**Zero Drift:** Negligible due to auto zero system  
 When auto zero set a 60 second intervals (2 minute warm up)

**Zero System Accuracy:** ± 0.05 Pascal typical

**Orientation Effect:** (any 45° change) 0.1 Pascal typical

**Output Socket:** RS 232 (baud rate 9600)

**Data Logging:** Up to 2500 any units

**Software:** Download data to PC in very basic form

**Power Source:** Dry Cell (MN1604, PP3) or Rechargeable

**System Air Leak:** 0.1 ml/minute at 5 KPa (typical)

**Safe Line / Differential Pressure:** 15KPa

**Storage Temperature Limits:** -5° to +50°C

**Weight:** 555 g with battery

**Dimensions:** 45 x 92 x 185 mm



Manufactured in UK

In the interest of continuous product development and improvement DP Measurement reserve the right to amend specifications and discontinue models, features and colours of the TT Series and dpm Ane™ at any time without prior notice.

Distributed by:



#### DP Measurement

Unit 11, Top Angel, Buckingham Industrial Park  
 Buckingham, England. MK18 1TH  
 Tel / Fax +44 (0)1280 817122  
[www.ttseries.com](http://www.ttseries.com) email [dpm@ttseries.com](mailto:dpm@ttseries.com)



#### Associated Instrument Repairs

Unit 11, Top Angel, Buckingham Industrial Park  
 Buckingham, England. MK18 1TH  
 Tel / Fax +44 (0)1280 823823  
[www.a-i-r.co.uk](http://www.a-i-r.co.uk) email [air@ttseries.com](mailto:air@ttseries.com)