

TT SERIES MICROMANOMETER

AREA SETTING

SINGLE BATTERY

0.01 RESOLUTION

AVERAGE VOLUME

PITOT TUBE FACTOR

STORES 2500 READINGS

AIR DENSITY CORRECTION



Instrument shown actual size



For Measurement of Air Velocity and Pressure
Positive Negative or Differential

The TT 550 Series hand-held Micromanometer is setting the standard in pressure and velocity measurement with a resolution of 0.01 Pascal and 0.01 m/sec.

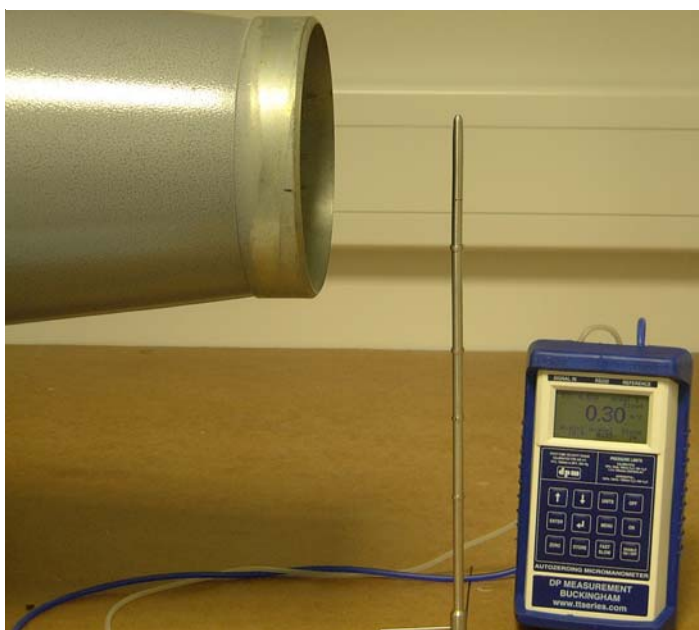
With its unique sensors, modern technology and programmable auto zero facility, it is possible to have two Micromanometers in one, by simply selecting the sensitivity mode from the user menu.

Up to three Pitot tube factors can be stored. With air density correction and area setting, true velocity and volume readings can be measured with an accuracy of **± 1% of reading ± 1 count.**

A maximum of 2500 readings can also be stored and downloaded to a PC or thermal printer.

Other features include back light display, auto switch off, real time recording and auto ranging with a pressure range of 0.04 to 5000 Pascals.

TT 550 Micromanometer is the instrument for engineers.



MODELS

550 550S 550M 550A 550B 550C 550D

	550	550S	550M	550A	550B	550C	550D
Pressure							
Pascals	✓	✓				✓	✓
mmH ₂ O	✓		✓			✓	✓
inH ₂ O	✓			✓		✓	✓
mbar	✓				✓	✓	✓
Velocity							
m/sec		✓	✓		✓	✓	
ft/min				✓			✓

APPLICATIONS

HVAC Commissioning and maintenance, COSHH requirements relating to airflow and pressure, Gas flow measurement, Aerodynamics and airflow research and development, Furnace draught measurement, Paint booth, Clean room measurement, Wind tunnel testing, Fume cupboard testing and Local exhaust ventilation (LEV)

DP MEASUREMENT

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Buckingham. MK18 1TH
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www.ttseries.com

In the interest of product development and improvement, DP Measurement reserve the right to amend the specification, models and features of the Micromanometer at any time without prior notice.

SENSITIVITY

High Sensitivity (Resolution)

Pressure

Pascals: ± 0.04 to 99.99 ± 100.0 to 999.9 ± 1000 to 5000
mmH₂O: ± 0.004 to 9.999 ± 10.00 to 99.99 ± 100.0 to 500.0
inH₂O: ± 0.000 to 9.999 ± 10.00 to 20.00
mbar: ± 0.000 to 9.999 ± 10.00 to 50.00

Velocity

Using Pitot Static Tubes

m/sec: ± 0.21¹ to 9.99 ± 10.0 to 90.0²
ft/min: ± 42.0 to 99.9 ± 100 to 17,700

Accuracy @ 20°C

Pressure

Readings < 100 counts ± 2 counts
Readings > 100 counts ± 1% of reading ± 1 count

Velocity

Using Pitot Static Tubes

Ellipsoidal type² Readings < 100 counts ± 2 counts
Readings > 100 counts ± 1% of reading ± 1 count
dpm-i type¹ ± 3% of reading or ± 0.05m/sec (10ft/min) ± 1 digit
(whichever is greater)

Low Sensitivity (Resolution)

Pressure

Pascals: ± 0.0 to 99.9 ± 100 to 999 ± 1.00 to 5.00 Kpa
mmH₂O: ± 0.000 to 0.999 ± 1.00 to 9.99 ± 10.0 to 99.9 ± 100 to 500
inH₂O: ± 0.000 to 0.999 ± 1.00 to 9.99 ± 10.0 to 20.0
mbar: ± 0.000 to 0.999 ± 1.00 to 9.99 ± 10.0 to 50.0

Velocity

Using Pitot Static Tubes

m/sec: ± 0.2³ to 90.0² ft/min: ± 42 to 17,700

Accuracy @ 20°C

Pressure

Readings < 100 counts ± 2 counts
Readings > 100 counts ± 1% of reading ± 1 count

Velocity

Using Pitot Static Tubes

Ellipsoidal type² Readings < 100 counts ± 2 counts
Readings > 100 counts ± 1% of reading ± 1 count
dpm-i type³ ± 3% of reading or ± 0.1m/sec (20ft/min) ± 1 digit
(whichever is greater)

GENERAL SPECIFICATION

Operational Limits

0° to 50°C (32° to 123°F) (Recommended)

Span Stability v. Temperature

0.1% of range in use per °C (per 2°F)

Zero Drift

Negligible due to autozero system. When auto zero set at 30 secs intervals (2 minute warm up)

Zero System

± 0.05 pascal typical

Accuracy

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 readings to PC in a very basic form

Power Source

Dry cell (MN1604, PP3) or Rechargeable

System Air Leak

0.1 ml/minute a 5Kpa (typical)

Safe Line /

15Kpa **Weight** 555 grammes

Differential Pressure

with battery

Storage Temperature

-5° to +50°C **Dimensions** 45 x 92 x 185 mm

STANDARD ACCESSORIES

3m x 2mm bore flexible tubing (2), 2mm / 6mm tubing adaptors (4), Neck sling, Instruction manual, Calibration certificate and soft lined case

OPTIONAL EXTRAS

RS 232 lead for PC, Basic Software to download data on to PC, Rubber Holster and Pitot Tubes

Distributed by:



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