

TES

Reliable in Quality

3142/3142U Pitot Tube Anemometer & Differential Manometer

- ☐ Air flow volume
- ☐ Differential pressure, Stagnation pressure and Static pressure measurement
- ☐ Instant/Avg/ $\frac{2}{3}$ V max flow measurement
- ☐ Velocity m/s, f t/min
- ☐ Temperature, Humidity & Atmospheric measurement
- ☐ Calculate Dew point Temp., Wet bulb Temp., Wind chill Temp., Humidex Temp. and Heat index Temp.
- ☐ Data hold & Maximum / Minimum / Average function
- ☐ Manual data memory and read function: 99 sets
- ☐ Auto data memory: 4GB microSD card (3142U)
- ☐ USB interface (3142U)

Psi, hPa, inH₂O, mmHg
°C, °F
%RH
m/s, ft/min
m³/min, ft³/min





Reliable in Quality

3142/3142U Pitot Tube Anemometer & Differential Manometer

FEATURES

- ☐ Air flow volume
- ☐ Differential pressure, Stagnation pressure and Static pressure measurement
- ☐ Instant/Avg/ $\frac{2}{3}$ V max flow measurement
- ☐ Velocity m/s, f t/min
- ☐ Temperature, Humidity & Atmospheric measurement
- ☐ Calculate Dew point temperature, Wet bulb temperature, Wind chill temperature, Humidex temperature and Heat index temperature.
- ☐ Data hold & Maximum / Minimum / Average function
- ☐ Manual data memory and read function: 99 sets
- ☐ Auto data memory: 4GB microSD card (3142U)
- ☐ USB interface (3142U)

SPECIFICATIONS

Display	Triple display, 4 digit LCD reading
Differential Pressure	Range: -3.735 to 3.735 hPa
	Resolution: 0.001 hPa
	Accuracy : $\pm 1\%$ of reading ± 0.01 hPa
Velocity from Pitot Tube	Range: 1.27 to 78.7 m/s
	Resolution: 0.1 m/s
	Accuracy: $\pm 1.5\%$ at 10.16 m/s
Volumetric Flow Rate	Range: Actual range is a function of actual velocity, pressure, duct size
Temperature	Range: -35 to 80°C
	Resolution: 0.1°C (0.1°F)
	Accuracy: $\pm 0.25^\circ\text{C}$ (at 5 to 65°C)
	$\pm 0.4^\circ\text{C}$ (at -35 to 5°C and 65 to 80°C)
	$\pm 0.8^\circ\text{F}$ (at +41°F to 149°F)
Relative Humidity	$\pm 1.6^\circ\text{F}$ (at -31°F to 41°F and +149°F to +176°F)
	Range: 0 to 100%RH
	Resolution: 0.1%RH
	Accuracy: $\pm 2\%$ RH (at 10 to 80%RH)
Warm up Time	$\pm 3\%$ RH (at 0 to 10%RH and 80 to 100%RH)
	< 1 minute
	Velocity: < 2 seconds
Response Time	Humidity: $\tau_{63\%} < 10\text{s}$ (from 33 to 75%RH)
	Temperature: $\tau_{63\%} < 10\text{s}$ (from 15°C to 45°C)
Operating Conditions	0°C ~ 50°C (32°F ~ 122°F), $\leq 80\%$ RH
Power Source	4 pcs 1.5V size AA Battery
Battery Life	Approx. 10 hours
Size & Weight	169(L)×78(W)×40 (H)mm / Approx. 273g
Accessories	Instruction manual, Battery, Carrying case, Pitot tube, Hoses (1 black and 1 white), USB Cable (3142U), CD Software (3142U)



TES ELECTRICAL ELECTRONIC CORP.

7F, No.31 Lane 513, Rui Guang Rd., Neihu Dist, Taipei, Taiwan

Tel : (02) 2799-3660 Fax : 886-2-2799-5099

E-mail : tes@ms9.hinet.net

<http://www.tes.com.tw>