



**TES**

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

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

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**TES ELECTRICAL ELECTRONIC CORP.**

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