



# DC580 Airflow Meter

## Hot-wire & Vane Anemometer

### Features/Benefits:

- Measure air velocity & temperature simultaneously
- Automatically calculate CFM
- Field replaceable hot-wire probe and vane probe
- Telescoping 38" hot-wire probe with ruler markings and flat edge for easy and proper probe alignment
- Communicate with smart phone using built in Bluetooth and Free TPI App
- Rubber boot provides protection; magnets on the back of boot provide hands free use
- Record minimum, maximum & average
- Measuring units: ft/min, mile/h, knots, m/s, km/h

### Applications:

- Air velocity measurements in HVAC systems
- Air duct traverse and ventilation analysis to balance commercial and residential HVAC systems
- Fume hoods, floor registers, exhaust grills & more

### Air Velocity

- Vane: 80 to 4900 fpm; 0.4 to 25 m/s
- Hot Wire: 40 to 3900 fpm; 0.2 to 20 m/s

### Temperature

- -4°F to 140°F (-20°C to 60°C)

# Measure Velocity & Temperature



**DC580:** instrument only, no probes or case

**DC580C1:** DC580, hot-wire probe, carrying case

**DC580C2:** DC580, vane probe, carrying case

**DC580C3:** DC580, hot-wire probe, vane probe and carrying case

**A581:** hot-wire probe

**A582:** vane probe

**A580:** carrying case



DC580 front and back



DC580C1 w/ hot-wire probe

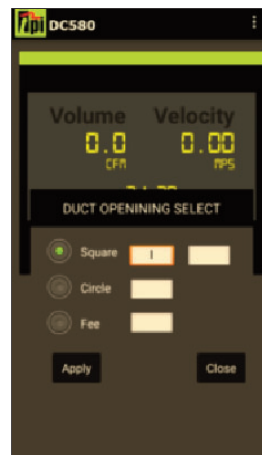
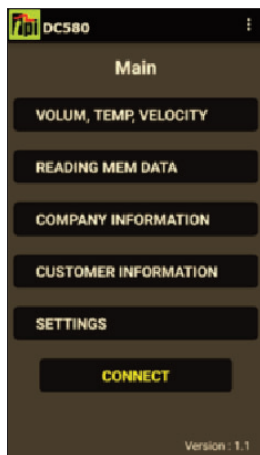


DC580C2 with vane probe

## Easy-to-Use Smart Phone App

### Save time with documentation.

Smart phone app allows easy documentation that you can share with your customer. Reduce paperwork and save time! See smart phone window examples below. Find the TPI DC580 App at the App Store or Google Play.



Function	Description	
Hotwire Air	Range	0.2 m/s ~ 20 m/s (40 fpm to 3900 fpm)
	Resolution	0.01 fpm or m/s
	Accuracy	±( 5% + 10 digit ) or ±( 1% + 10 digit ) F.S
	Unit	mph, fpm, m/s, km/h
Vane Air	Range	80 fpm to 4900 fpm (0.4 m/s ~ 25 m/s)
	Resolution	0.1 fpm or m/s
	Accuracy	±(2% + 3digit)
Temperature	Range	-4 °F ~ 140 °F (-20 °C ~ 60 °C)
	Resolution	0.1 °F (0.1 °C)
	Accuracy	± 1 °F ( 32 °F ~ 113 °F ) ± 2 °F ( -4 °F ~ 32°F, 113°F ~ 140°F ) ± 0.5 °C ( 0 °C ~ 45 °C ) ± 1 °C ( -20 °C ~ 0°C, 45°C ~ 60°C )
Others	Volumetric Flow	CFM, CMM
	REC, HOLD	MIN, MAX, AVG, Data HOLD
	Operating Environment	-4 °F ~ 140 °F (-20 °C ~ 60 °C) at <75%RH
	Connectivity	Bluetooth LE
	Battery	4.5V ( AA size x 3)
	Battery Life	Hotwire probe: about 30h. Vane probe: about 68h
Auto power off	15 min ( if APO is active )	

**Probe Input Jack:**  
Automatically identifies vane or hot wire probe type

**SET mode key:**  
Up: Data Hold

**LCD display**

**SET mode:**  
Enter key: Switch between Air Velocity measurement and Volume (CFM, CMM) and measurement.

**Air Velocity unit:**  
( fpm, mph, knots, m/s, km/h),  
Volume unit (CFM, CMM),  
Temperature unit (°F, °C), Area unit (in<sup>2</sup>, ft<sup>2</sup>, cm<sup>2</sup>, m<sup>2</sup>)

**SET mode:**  
Left key

**SET mode:**  
Right key: Display saved values

**Record mode:**  
(Time record mode, Point record mode), MAX , MIN , AVG

**Backlight On/Off:**  
(Backlight Auto off 60 Sec.)  
Bluetooth On/Off

**SET mode:**  
Down key: Auto power Off enable / disable Save air velocity and air volume readings

**On / Off:**



DC580 Photo Actual Size

**Size**  
W x L x D 2.9" x 6.6" x 1.6"  
(73.5mm x 167.5mm x 41.5mm)

**Weight**  
0.8 lb (363g)