

# 183a True RMS DMM with capacitance, low-pass filter, duty cycle, and temperature

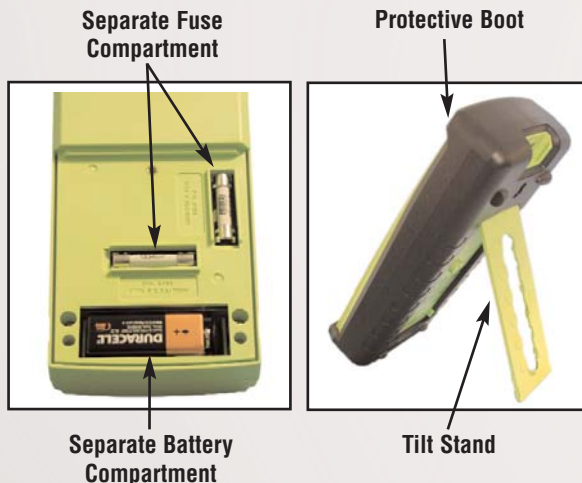
## Test the TPI advantage



- True RMS DMM
- Duty cycle (% pulse width modulation) for measuring modulating gas valves
- Low pass filter for noisy environments
- Separate fuse (2) and battery compartment
- IR serial interface that can be used to input data to PC with optional A183
- High resolution (0.01) low DC microamp range for measuring flame safety control circuit
- Frequency, capacitance, temperature, data hold, min/max record, relative mode
- AC/DC volts, AC/DC amps, resistance, audible continuity and diode test
- CAT II - 1000V
- CAT III - 600V
- cULus 61010-1
- 3 year limited warranty



- True RMS for more accurate measurements
- Duty cycle (% pulse width modulation) for measuring modulating gas valves
- Low pass filter for noisy environments
- Separate fuse and battery compartment
- IR serial interface



TPI 183A	
<b>Range Selection</b>	
Auto / Manual	•
<b>Display Specifications</b>	
4000 Count Display	•
Analog Bar Graph	•
Backlight	•
<b>Basic Functions</b>	
AC / DC Volts, AC / DC Amps	
Resistance, Diode Test	•
Audible Continuity	
<b>Additional Functions</b>	
True RMS, Frequency, Capacitance, Temperature	•
Duty Cycle (% of pulse width modulation (PWM))	
Data Hold	•
Min / Max Record	•
Relative Mode	•
Active Low Pass Filter Function	•
PC Output	•
Sleep Mode / Auto Off	•
<b>Additional Features</b>	
Frequency Check in Volt Mode	•
Closed Case Calibration	•
Separate Fuse / Battery Access	•
Protective Boot	•
<b>Range &amp; Resolution</b>	
Basic DC Accuracy	0.5%
DC Voltage (maximum)	1000V
Input Impedance	10MΩ
Resolution (maximum)	0.01mV
AC Voltage (maximum)	750V
Input Impedance	10MΩ
Resolution (maximum)	0.01mV
DC Amps (maximum)	10A
Resolution (maximum)	0.01μA
AC Amps (maximum)	10A
Resolution (maximum)	0.1μA
Resistance (maximum)	40MΩ
Resolution (maximum)	0.1Ω
Frequency (maximum)	10MHz
Resolution (maximum)	0.01Hz
Temperature (maximum)	2372°F
Resolution (maximum)	0.1°F
Capacitance (maximum)	4000μF
Resolution (maximum)	0.01nF
Duty Cycle	0.1 to 99.9%
<b>Agency Approval</b>	
CE IEC 61010	CAT II 1000V / CAT III 600V /
cULus 61010	•
List Price	\$159.95



**4000 count display with analog bargraph and backlight**

**RANGE:**  
Select between auto and manual ranging

**REC:**  
Display the minimum and maximum reading being measured

**FUNCTION:**  
Use to select between multiple functions at each selector position

**RESISTANCE, CONTINUITY BUZZER, DIODE TEST**

**AC VOLTS:**  
Measure AC voltage, frequency, and duty cycle

**PC OUTPUT:**  
Isolated optical to USB output (Optional A183 cable & software required)

**Hz / DUTY:**  
Select between frequency and duty cycle while measuring AC volts

**REL:**  
Display measured values relative to a stored value

**HOLD / \*:**  
Freezes measured values on the display / Activates the backlight

**LPF:**  
Activates the low pass filter.

**LOW DC MICROAMP RANGE:**  
High resolution (0.01uA) range for flame safety measurements

**CAPACITANCE:**  
Test capacitors

**TEMP:**  
Measure temperature (K-type thermocouple and banana adapter included)

- TPI 183A comes with:**
- A085** silicone test leads with alligator clips
  - A106** temperature input adapter
  - GK11M** beaded K-type temperature probe

**Photo is actual size  
With Protective Boot  
3.4" x 7.4" x 1.3"**