183a
Data Sheet
03.10

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	
Range Selection	
Auto / Manual	•
Display Specifications	
4000 Count Display	•
Analog Bar Graph	•
Backlight	•
Basic Functions	
AC / DC Volts, AC / DC Amps Resistance, Diode Test Audible Continuity	•
Additional Functions	
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	•
Additional Features	
Frequency Check in Volt Mode	•
Closed Case Calibration	•
Separate Fuse / Battery Access	•
Protective Boot	•
Range & Resolution	
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%
Agency Approval	
CE IEC 61010	CAT II 1000V / CAT III 600V /
cULus 61010	•
List Price	$159.95

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

4000 count display with analog bargraph and backlight

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

RANGE: *Select between auto and manual ranging*

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

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

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

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

LPF: *Activates the low pass filter.*

RESISTANCE, CONTINUITY BUZZER, DIODE TEST

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

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

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 tem perature probe

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

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