



Model Trace Meter 500

BATTERY MONITORING SYSTEM

The Trace Meter provides accurate and vital information to ensure maximum battery life and optimum system performance.

Batteries are a significant and very expensive part of any independent energy system. It is important to take good care of this investment. The Trace Meter keeps track of the energy your system has available, as well as energy consumed—thereby ensuring adequate reserve power capacity to run appliances, as well as to ensure the longevity of your battery bank.

The Trace Meter is both a simple energy supply “fuel gauge” and a sophisticated user-option “energy storage computer” that records system characteristics and data. The Trace Meter provides information on all critical system functions, and is capable of monitoring total accumulated charge power from sources such as photovoltaic arrays, wind power systems, and generator sets.

The Trace Meter is easy to use and install

Simply mount your meter, connect the shunt to your battery cables, and plug in the communication cable.

Just what will the Trace Meter 500 measure or record?

- Battery Voltage: 8 to 32 VDC or 16 to 70 VDC with optional 48 VDC adapter (must order optional TM48 adapter separately)
- Net Battery Current: 0.1 to 167,000 Amp Hours DC
- Battery Charge Level: Lo, 30 to 90% in 5% increments, full
- Cumulative Amp Hours Removed: Monitors battery bank usage which can be used to estimate battery life
- Days Since Full: Days since the battery bank was fully charged—encourages proper battery management by warning of system problems
- Battery Highest Voltage: Resettable, monitors charge controllers and battery chargers
- Battery Lowest Voltage: Resettable, monitors system to detect malfunction or system failure

Part numbers:

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| TM 500 | Trace Meter with shunt and 50 foot (15m) communication cable |
| TM 500 - NS | Trace Meter without shunt includes 50 foot (15m) communication cable and plug-in connector for shunt |
| TM - 48 | Adapter for 48 VDC systems. Mounts on shunt |



From
Trace Engineering,
maker of the world's
most reliable inverters

Model Trace Meter 500

SPECIFICATIONS

FUNCTIONS	RANGE
Battery Volts:	8.0 — 35.0 VDC +/- 0.1 VDC (TM 500) 16.0 — 70.0 VDC +/- 0.2VDC (TM 500 & TM 48)
Battery Amps:	0.1 — 999 Amps DC +/- 1.5% (+ least significant digit)
Resolution:	0.1 Amp DC (.01 to 99.9 Amps DC) 1.0 Amps DC (100 to 999 Amps DC)
Battery Level %:	Lo, 30 to 90% in 5% increments, Full
Current Draw (typical):	16 Milliamps (with display OFF) 32 Milliamps (with display ON)
Net Ampere Hours:	0.01 to +/- 167,000 Amp Hours
Shunt Type:	Deltec 500 Amp/50mV (Available with or without) Plug in compatibility cable adapter and cable included with either version

DATA MONITORING FUNCTIONS	
Days Since Full:	0.01 — 655 Days (reset if battery is disconnected)
Cumulative Amp Hours Removed:	0 — 999,000 AH (retained even if battery is disconnected)
Battery Highest Volts:	up to 35.1 VDC (resetable) (standard 12-24 VDC systems) up to 70.2 VDC (resetable) (with optional 48 VDC adapter)
Battery Lowest Volts:	down to 8.0 VDC (resetable) (12-24 VDC systems) down to 16.0 VDC (resetable) (with optional 48 Volt adapter)

MECHANICAL	
Size:	H = 4.55" W = 4.55" D = 1.725" (11.56 cm, 11.56 cm, 4.38 cm)
Mounting:	Flush or surface mount with Trace 2 gang plastic outlet box
Display:	3 1/2 digit, 7 segment, red LED numeric display with 4 additional LED indicators
Shipping Weight:	3 lbs. (1.36 kg)

WARNING INDICATORS	
Flashing LED Indicators:	Recharge Reminder (adjustable) 1-99 days Low Battery Voltage Condition (adjustable)

*specifications may change without notice



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