

# Quick Maintenance

## CELLTRON ESSENTIAL Stationary Battery String Analyzer

The **CELLTRON® ESSENTIAL** provides the fundamental operations necessary for stationary battery applications. Features address the needs of cable TV operators and broadband service providers, making it easier to perform quick battery maintenance. Excellent for outside plant (OSP) data collection, this handheld device measures individual cell and computes overall string health voltage with ease.

The **CELLTRON ESSENTIAL** also provides advanced warning of potential battery failures to prioritize battery replacements

for more cost-effective system management. Simple user interface and quick reset options allow for accurate and timely operation. Consistent, repeatable on-line testing can be performed without discharge to batteries. Test each cell in less than 10 seconds and an entire string of batteries in just minutes. No external power source needed. Protective carrying case included. Optional accessories are available.

### Features:

- Quick, simple, safe & accurate operation
- 2000 Ah testing capability
- Stores 480 consecutive test results and overall string statistics
- Enhanced backlit display and screen resolution
- Quick reset option for erroneous test entries
- Measures individual cell and overall string health and voltage
- Menu driven test sequence
- Consistent, repeatable on-line testing without discharge to batteries
- Conductance technology effectively trends battery state of health
- Tests 2, 6, 12-volt batteries on-line or off-line
- Provides advanced warning of potential battery failures
- Test each cell in under 10 seconds and entire string of batteries in just minutes
- Helps prioritize battery replacements for more cost-effective system management
- Tests both battery cell and intercell strap integrity
- No external power source needed
- Portable IR wireless printing



# CELLTRON ESSENTIAL

## Stationary Battery String Analyzer

### Specifications

**Model Number:**

CTE-1000

**Applications:**

Tests individual 2, 6, and 12-volt lead acid cells or monoblocs in any common configuration

**Voltage:**

1.0 - 15.0 Volts DC

**Conductance:**

100 - 9,999 Siemens

**Test Data Storage:**

Up to 480 consecutive test results can be stored internally

**Accuracy:**

+ 2% across test range

**Voltmeter Resolution:**

10 mV DC

**User Programmable Functions:**

- Low voltage alarm setting
- Low conductance warning
- Low conductance failure
- Day/date/time formats (USA/international)
- Test mode (push button/auto start)

**Calibration:**

Auto-calibration prior to every test, no future calibration required

**Connectorized Test Cable Options:**

- Dual contact clamps
- Dual contact probes
- Custom cables by quotation

**Power Requirements:**

One 9-volt high capacity lithium battery or rechargeable battery pack accessory

**Environmental Operating Range:**

0 to +40°C, 95% relative humidity, non-condensing

**Storage Temperature:**

-20 to 82°C

**Over Voltage Protection:**

- Fused protection to 16 volts DC
- Reverse polarity protected

**Housing Material:**

Acid resistant ABS plastic

**Analyzer Dimensions:**

9 in x 4 in x 2 1/2 in  
230 mm x 102 mm x 65 mm

**Case Dimensions:**

19 in x 15.5 in x 5 in  
750 mm x 610 mm x 200 mm

**Analyzer Weight:**

1 lb / 500 gm

**Special Features:**

- Impact resistance tested
- Connection interfaces tested for durability and endurance
- No-Ox grease petroleum product resistance



Printer included with the CTE-1500

**CTE-1000 includes:**

- Protective carrying case
- Probe cables
- Spare fuses, 9-volt battery, probe tips

**CTE-1500 includes:**

- CTE-1000 Kit
- High speed printer

**Other accessories available: (not included in the CTE-1000)**

- Custom interfaces
- Connectorized test cable
- Protective boot
- Rechargeable battery pack
- Infrared printer
- Temperature sensor
- Clamp cables

**MIDTRONICS**



Stationary Power

midtronics.com

**Corporate Headquarters**

Willowbrook, IL USA  
Phone: 1.630.323.2800

**Canadian Inquiries**

Toll Free: 1.866.592.8053

**Midtronics b.v.**

European Headquarters  
Houten, The Netherlands  
Serving Europe, Africa, the Middle East,  
and The Netherlands  
Phone: +31 306 868 150

**Midtronics China Office**

China Operations  
Shenzhen, China  
Phone: +86 755 8202 2037

**Latin America**

**Asia/Pacific (excluding China)**  
Contact Corporate Headquarters  
Phone: +1.630.323.2800