

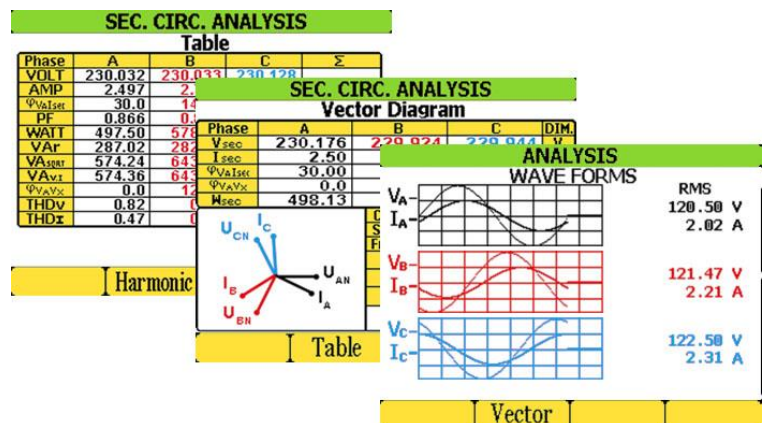
# Gold Miner IV Color

METER TESTER, CT TESTER & CIRCUIT ANALYZER



## Features

- TFT Color Display, 5", backlit – **New!**
- In-service Testing of Energy Meters – **Accuracy 0.04%**
- 3-Phase Real-time Vector Diagram, Wiring Verification
- Analysis, Waveforms, Harmonics
- Automatic CT Burden & Ratio Test for All Phases
- Demagnetization of Current transformers
- Power Voltage Transformer Ratio Test
- User Safety Design - **600 V/ CAT IV**



## Improved Accuracy – 0.04%

The accuracy of energy measurements with duck bills (direct current measurement) is less than 0.04%. Current sensors such as clamp-on CTs, flexible probes, HV probes, add additional error within 0.2% to 0.5%

## Simultaneous Accuracy Testing of Entire Measurement Circuit

Gold Miner is the first device of its type to test the electricity meter using exact, simultaneous measurements made on all primary and all secondary phases of the current circuit. Gold Miner not only displays the Meter's accuracy, but also the overall, true accuracy resulting from the CTs + Meter combination for your entire measurement circuit.

## Automatic CT Test of ALL Phases without Interruption

With the push of a button, CT Burden and Ratio Tests are performed on all phases, without interruption. This is the fastest and safest way to test. You can view all burden graphs and tables from any test site directly from memory on the large LCD display.

## Instantaneous Analysis

Gold Miner performs circuit analysis and wiring verification on ALL phases for both Primary and Secondary circuit at the same time. Vector Diagrams, Harmonic Analysis, Input Waveforms and Tables with the numerical values of Voltage, Current, Phase Shift, Power and frequency are displayed on different screens.

## VT Testing

Voltage transformers can be tested for turn ratio and phase displacement angle with HV voltage probe (for the primary side) and one of the voltage inputs (for the secondary side)

## Demagnetization

Demagnetization of an operating current transformer can be carried out, if the secondary circuit resistance is increased stepwise till the core gets into saturation, and thereafter is again stepwise decreased. The lower the secondary circuit current is, the greater should be the resistance required for saturation. We ensure for demagnetization resistances up to 50Ω and power up to 100VA.

## User Safety Design – 600V / CAT IV

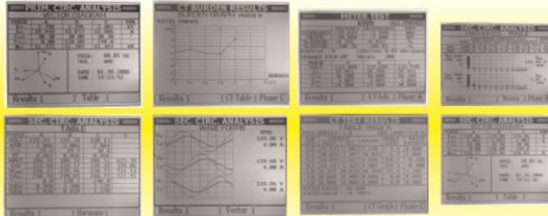
600V CAT IV for a measuring instrument means that it can be operated on outdoor installations with rated voltage up to 600V, and that it can support instantaneous overvoltage up to 8kV.

# FAST AND EASY AS 1-2-3

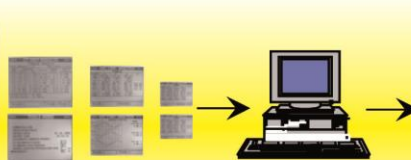
## 1 Select any or all Tests

## 2 One Global Setup Screen

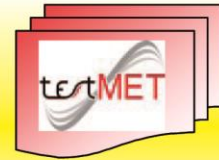
## 3 Run your Tests



**Valuable Results  
at your Fingertips**



**Transfer to your  
PC or Laptop**



**Print Professional Reports  
with testMET™ Software**

## The On-Board Consultant

During testing, Gold Miner automatically searches for a variety of possible conditions on your circuit, which may warrant your attention. Upon detection, the on-board Consultant explains its findings, and provides guidance for further investigation so you may ultimately make money-saving corrections.

## Save and View Saved Files

Gold Miner IV stores up to 100 test sites in a non-volatile memory. All these files can be transferred to a PC via USB port or viewed on the display of the unit. When saving, the operator need only enter the Location name and the ID Number of the meter. The date and time are automatically saved.

## Testmet Software

Testmet Software uses MySQL Database. Searches with different criteria may be performed and Test Reports viewed and printed. The operator is able to customize the heading of the Report and add additional notes.

## Standard Equipment

- The Gold Miner™ IV;
- 3 Flexible Primary Probes (36 in. loop, 24 ft. length);
- 3 Test Plugs (Duckbills);
- 4 Voltage Leads;
- 1 Electronic Pulse Pick-up for meter testing;
- 1 Infrared Pulse Pickup;
- 1 Hand-switch for meter testing;
- 1 Rugged, Integrated Carrying Case;
- 1 Li-Ion Battery Pack and Charger Kit

## Optional Equipment

- 1 HV Optical Voltage Probe (40kV);
- 1 HV Optical Current Probe (2000A);
- 1 Primary Current Clamp (1000A);
- 3 Secondary Current Clamps (200A)

## Specifications

- Voltage Inputs:** 3-Channels, 10 to 600V-rms
- Current Inputs:** 3-Channels for Flexible Probes (2000A); 3-Channels for Test Plugs (20A); 3-Channel for Sec. Current Clamps (200A); 1-Channel for HV Current Probe (2000A); 1-Channel for Prim. Current Clamp (1000A)
- Energy Meas:** kWh, kVARh, kVAh  
+/-0.04% Accuracy (with Test Plugs)
- Power Meas:** kW, kVAR, kVA per-phase & system values
- Burden Test:** 0.1Ω 0.2Ω 0.5Ω 1.0Ω 2.0Ω 4.0Ω, Selectable
- Ratio Test:** +/-0.2% Accuracy (typical)
- Phase Shift:** +/-0.1 degree Accuracy (typical)  
when using Flexible Probes and Test Plugs
- Harmonics:** Measures to the 49<sup>th</sup> harmonic  
Measures THD (Total Harmonic Distortion)
- Power Factor:** -1.000 to +1.000 with +/-0.05% Accuracy
- Demag:** Up to 50Ω, 100VA
- Memory:** Stores data for up to 100 Sites
- Data Interface:** USB Port
- Power Supply:** Li-Ion Battery Pack;  
Battery Life > 8 hours (typical)

**TESTMET Inc.**

[www.testmet.com](http://www.testmet.com)

**Innovation in Utility Testing Solutions™**

**Office Location:**

**85 Hawks Landing Cir**

**Unit 304**

**Verona, WI 53593**

**Phone (952) 486-7653**

**Fax: (952) 486-8131**

**E-mail: support@testmet.com**

