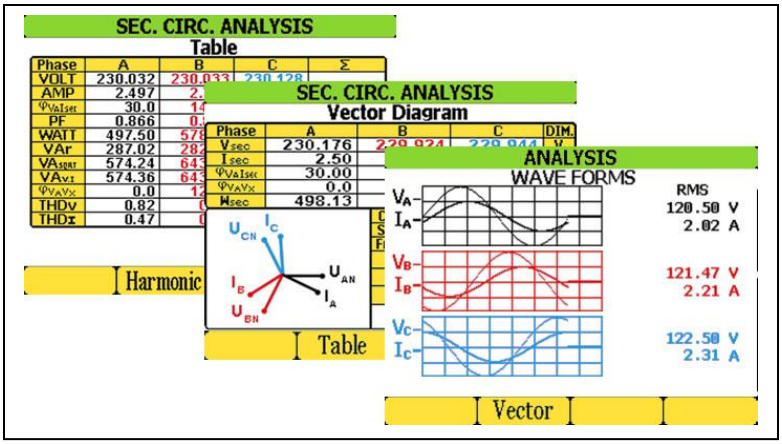
Gold Miner IV Color

METER TESTER, CT TESTER & CIRCUIT ANALYZER

Features

- TFT Color Display, 5”, backlit
- 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
- User Safety Design - 600 V/ CAT IV
- Bar Code Reader – AEP Standard – New!
- FL, LL and PF Tests with Load in a Separate Case – New!
- Powerful Software and Data Base, Export in Excel – New!



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.
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.

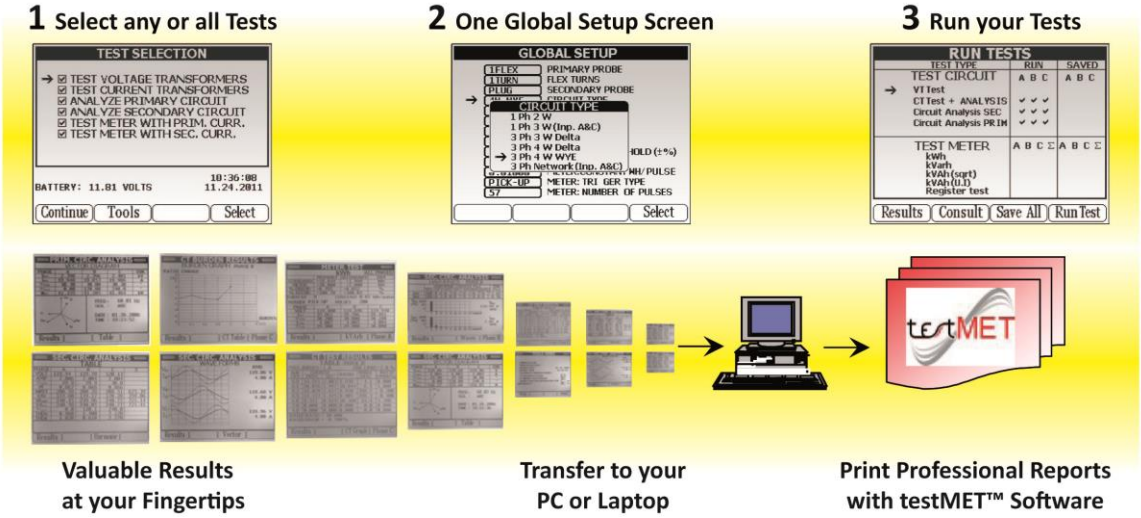
Demagnetization

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



New! FL, LL and PF Tests

The new feature of Gold Miner IV is the ability to control a Phantom Load, mounted in another case - type EE-60A-3 or EE-20A-3.
Automatic Test Plans could be performed, with the standard Test Points of FL, LL and PF. Other values for current and phase-shift could also be pre-set.
Each Test Plan includes maximum 12 Test Points.

On-Board Consultant

During testing, Gold Miner automatically searches for wrong connections and displays warning messages, when needed.

Save and View Saved Files

Gold Miner IV stores up to 100 test sites in a non-volatile memory. All files can be transferred to a PC via USB port or viewed on the display of the unit.

TESTMET Software

TESTMET Software uses MySQL Database.
Searches with different criteria may be performed and Test Reports viewed and printed.
The Test Reports can be exported as an Excel File.

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 Current Probe (2000A);
1 Primary Current Clamp (1000A);
3 Secondary Current Clamps (100A)

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) +/- 0.5 % Accuracy (with Current Clamps) +/- 1.0 % Accuracy (with Flexible Probes)
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 49th 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)

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