Low-cost Load Studies, NEC 220.87 Compliance & More

Small, portable, 3-phase true RMS current data logger

Free IOS / Android app

CURRENT ONLY DATA LOGGER

METSyS is a low cost, simple to use 3 phase true RMS current data logger that is ideal for any load study application. Being a current only logger, METSyS does not require a voltage connection, so it is perfect for applications such as connected load studies, compliance with NEC 220.87, breaker / circuit capacity evaluations and more. The small flexible Rogowski coil current sensors allow for quick, safe, and easy connection to circuits to be measured.
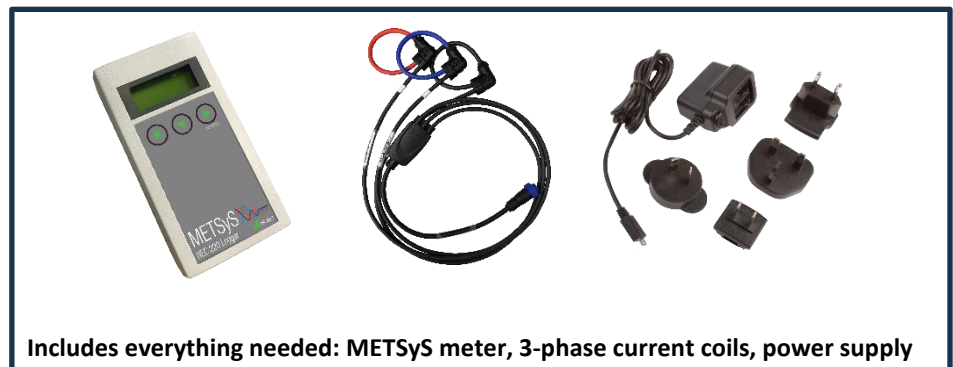
SIMPLICITY AND EASE OF USE

METSyS is simple to set up using its 2-line display or IOS / Android app. Its internal rechargeable battery allows for up to 100 hours (4 days) of logging on a single charge making it ideal for short term studies. For applications where longer-term measurements are required METSyS can be powered via the supplied USB power adapter.

DATA ANALYSIS AND COMMUNICATIONS

METSyS comes with a free IOS or Android app that communicates with the METSyS via Bluetooth that enables easy logger setup, viewing of live data, remote control of logger functions, and the option for emailing the logged data file. Logged data can be accessed through the app or by using a USB Flash Drive. The data is stored in a comma-separated values (CSV) file format and can be simply loaded into a spreadsheet for graphing and review.

APPLICATIONS

- Current & load logging - no voltage connection required.
- US NEC 220.87 load studies.
- Connected load studies – how much current is being drawn over time.
- Breaker, panel, and other device capacity troubleshooting and verification.
- Troubleshoot overcurrent problems. Breaker tripping, etc.
- Portable ammeter for instantaneous current readings.

Includes everything needed: METSyS meter, 3-phase current coils, power supply

METSyS 3-Phase Current Data Logger

METSyS Features

• Portable true RMS current only data logger (no voltage connection).
• 3 phase current. Optional 4 phase Rogowski coil bundle.
• User selectable logging intervals from 10s to 60m.
• Records Min, Max, Average and Peak currents for each interval.
• Large 2GB internal memory. Non-volatile data storage.
• 2-line LCD display for real time readings, easy setup, and data transfer to USB.
• 3 button simplified user interface.
• 100 Hour internal battery.
• USB port for flash drive data storage to transfer data to a PC.
• Micro USB charge port for battery charging. Charger included.
• Bluetooth (BLE) for use with the free IOS / Android app.
• Generates easy to read CSV log files.
• Use Excel or the IOS / Android app for data review.
• Free IOS / Android App. Live readings, logger setup, start, stop & resume logging, email logged data.

SPECIFICATIONS

ELECTRICAL CHRACTERISTICS
• **Measuring Range**: 4,000 A AC RMS. 3 or 4 channels
• **Sampling**: 8 cycle window of current
• **Overload Capability**: 10,000 A
• **Accuracy (45-65Hz)**: ± 1% of reading ± 1A
• **Position Sensitivity**: ± 2.5%
• **Resolution**: ± 1A
• **Temperature Coefficient**: ± 0.05% of reading
• **Power Supply**: Internal rechargeable Lithium-Ion battery
• **Battery Life**: 100 hours typical
• **Charging Voltage**: Via USB micro-B (5V, 100mA)
• **Working Voltage:** 600 V ACRMS or DC

ENCLOSURE
• **Material**: ABS
• **Dimensions**: 160 (l) x 80 (w) x 45 (d) mm
• **Probe Conductor Diameter**: 100mm (4 inches), double insulated
• **Probe Diameter**: 6mm (0.24 inches)
• **Probe Degree of Protection**: IP67 (not certified by UL)

GENERAL CHARACTERISTICS
• **Display**: Back lit 2-line alpha numeric display
• **Log Intervals**: 10s, 30s, 1m, 2m, Sm, 10m, 15m, 30m, 60m.
• **Log Duration**: 1, 3, 8, 24, 48, 72, unlimited (Max 1 yr@ 10s)
• **Data Transfer**: Via USB memory stick (FAT 32)
• **Memory:** 2GB, internal, non-volatile
• **File Format**: Comma separated values file (CSV)
• **Operating Temp. Range**: -20 to +65 °C (-4°F to +149°F)
• **Storage Temp. Range**: -40 to +85 °C (-40°F to +167°F)

CONNECTIVITY
• **Bluetooth (BLE):** For use with IOS / Android app
• **USB:** Flash drive for data transfer to PC (not included)

• METSyS is manufactured by GMC Instruments Group company PROSyS