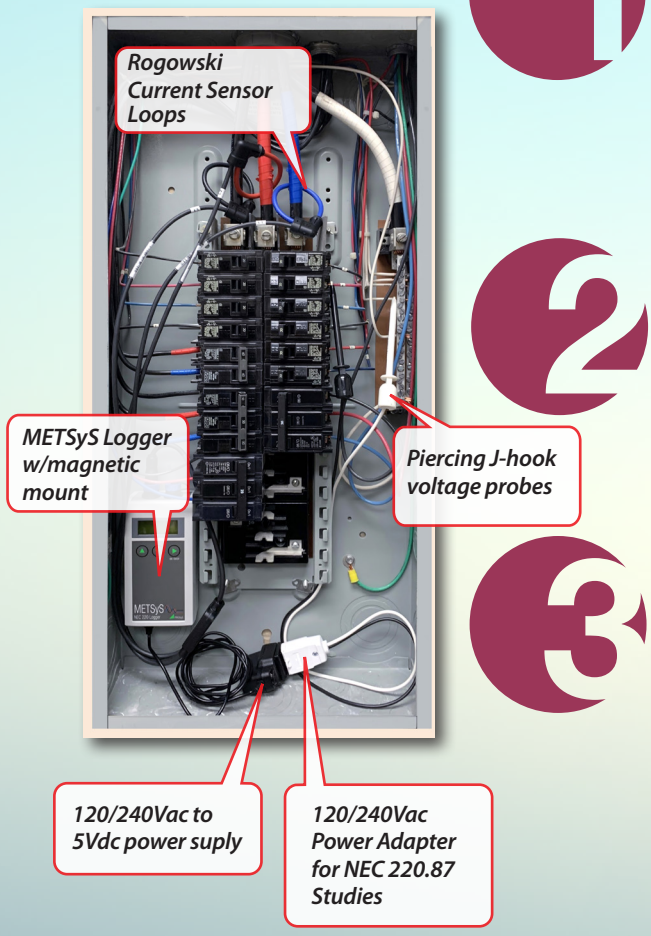
The Easiest Way to Conduct NEC 220.87 & Cal OSHPD Connected Load Studies

1-2-3-DONE

***POWERetc's* custom report generator and METSyS Logger package** makes it super-easy to setup and conduct Cal OSHPD (PIN 38) for medical facilities and NEC 220.87 connected load studies.

Before setup and reporting was a time-consuming, inconvenient process using bulky energy logging equipment.

Now the *POWERetc* / METSyS Logger package makes it as simple as **1-2-3:**



1 Hookup

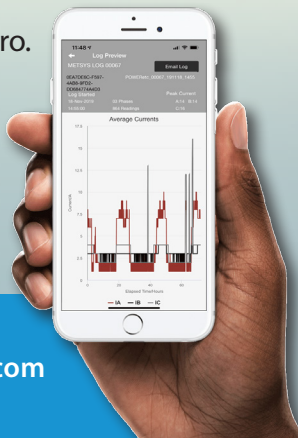
- **Place** the ultra-compact **METSyS Logger** inside the enclosure.
- **Attach** PROSyS Rogowski coils included in the ***POWERetc* package** for each phase and neutral.
- **Monitor** for 100 hours on the current logger's fully charged internal battery – or use the package's external power supply and voltage clips for longer-duration studies.

2 Setup

- **Turn** Bluetooth ON and pair the mobile app with the METSyS logger.
- **Label** the study.
- **Select** the averaging interval.
- **Set** the study duration.

3 Retrieve/Report

- **Download** METSyS logging session.
- **Take** screen shot of plot, save to photo's or email (optional, but a good practice).
- **Email** log for later processing with Excel macro.
- **Create** perfect reports with the ***POWERetc*** report generator. The proprietary Excel spreadsheet Macro takes all the mystery out of the equation.



POWERetc **Corporation** (0) 408 540-3199 / info@poweretc.com / www.poweretc.com

Create Clear, Concise Load Study Reports

The **Calif. OSHPD** mandates a 72-hour load study to confirm feeder capacity whenever loads are added to existing panels. The **NEC 220.87** connected load study involves collecting average current data in 15-minute intervals, continuously recorded over 30 days. (Note: Sometimes readings are verified after 7-days to verify that panel capacity exists, but the full 30-day period will be required, especially when electrical permits are required.)

The powerful Excel macro developed by, and only available from, ***POWERetc*** makes it easy to comply with OSHPD and NEC standards – while creating easy-to-read load study reports.

The Excel macro also calculates, and plots, the continuous load, identifies the maximum continuous load (MCL). [NOTE: A continuous load is defined, by the NEC, as a load that is present continuously for 180-minutes (3-hours).]

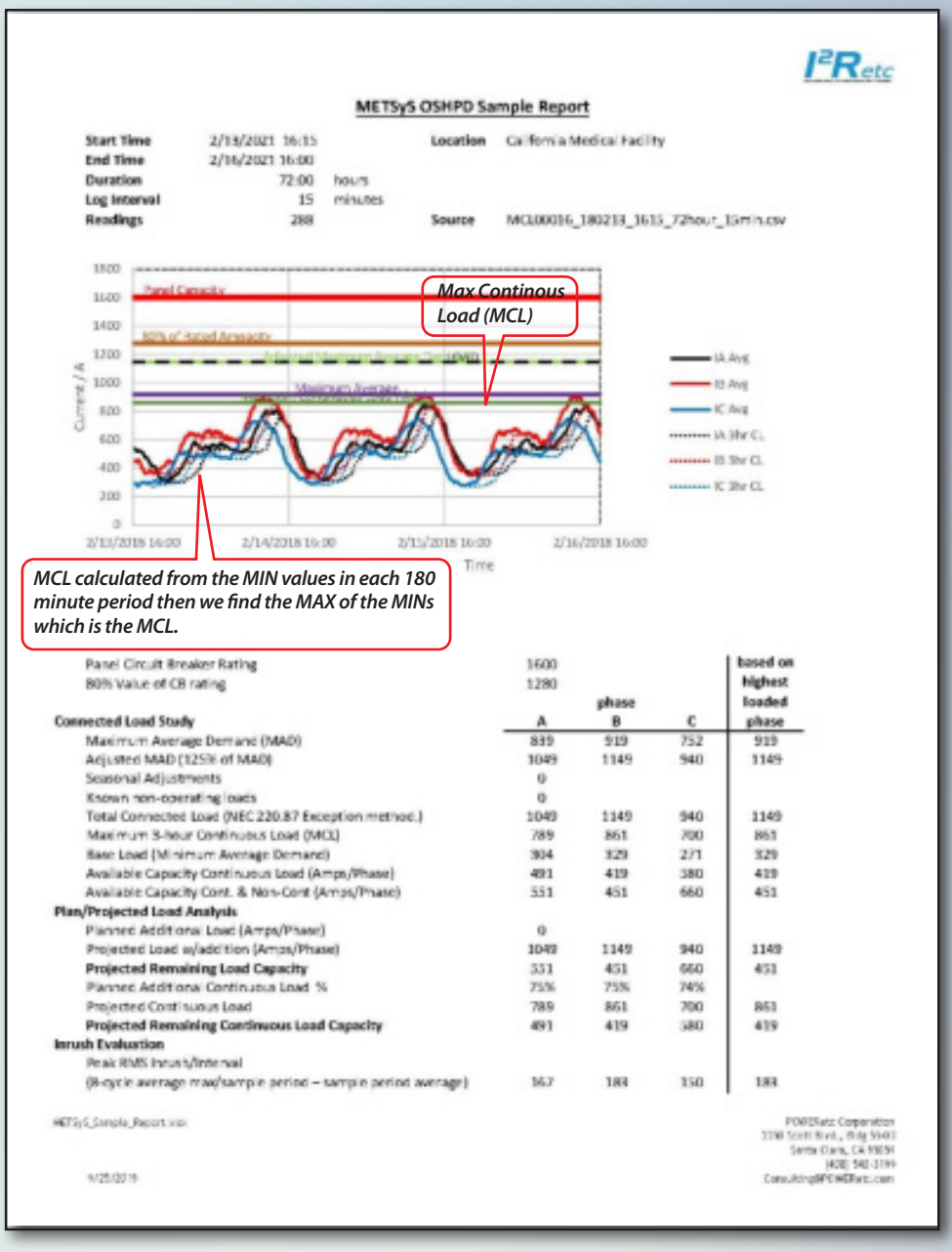
The ***POWERetc*** macro walks you through a series of screens – from analyzing the load characteristics to producing the final report.

Set Up analyses according to preference, such as:

- Panel ampacity
- Seasonal adjustments
- Planned additional load

Customize formatting and images, including:

- Report title
- Logo Images at top right and/or left top
- Text at bottom



METSyS OSHPD Sample Report

Start Time	2/13/2021 16:15	Location	California Medical Facility
End Time	2/16/2021 16:00		
Duration	72:00 hours		
Log Interval	15 minutes		
Readings	288	Source	MCL00016_180213_1615_72hour_15min.csv

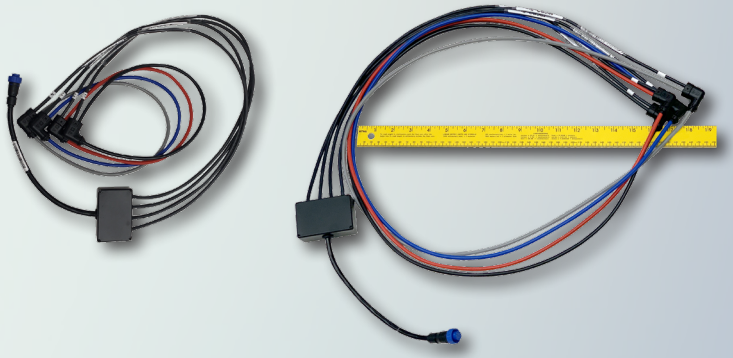
MCL calculated from the MIN values in each 180 minute period then we find the MAX of the MINs which is the MCL.

					based on highest loaded phase
Panel Circuit Breaker Rating	1600				
80% Value of CB rating	1280				
		phase			
Connected Load Study		A	B	C	
Maximum Average Demand (MAD)		839	919	752	919
Adjusted MAD (125% of MAD)		1049	1149	940	1149
Seasonal Adjustments		0			
Known non-operating loads		0			
Total Connected Load (NEC 220.87 Exception method.)		1049	1149	940	1149
Maximum 3-hour Continuous Load (MCL)		789	861	700	861
Base Load (Minimum Average Demand)		304	329	271	329
Available Capacity Continuous Load (Amps/Phase)		491	419	380	419
Available Capacity Cont. & Non-Cont (Amps/Phase)		551	451	660	451
Plan/Projected Load Analysis					
Planned Additional Load (Amps/Phase)		0			
Projected Load w/addition (Amps/Phase)		1049	1149	940	1149
Projected Remaining Load Capacity		551	451	660	451
Planned Additional Continuous Load %		75%	75%	74%	
Projected Continuous Load		789	861	700	861
Projected Remaining Continuous Load Capacity		491	419	380	419
Inrush Evaluation					
Peak RMS Inrush/Interval					
(8-cycle average max/sample period – sample period average)		167	188	150	188

METSyS_Sample_Report.xlsx

9/25/2019

The POWERetc METSyS Logger package comes complete with current probes, voltage probe and auxiliary power supply



The package is equipped with a choice of PROSyS current probes (2", 6", and 15" diameter probes available)

I²Retc
POWER AND OTHER SIMILAR THINGS

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March 2021