

SATEC Powerful Solutions



UTILITY • COMMERCIAL • INDUSTRIAL • RESIDENTIAL



METERING | SOFTWARE | PROFESSIONAL SERVICES

SATEC Overview

30+ years of innovation as a technology leader in
Electrical Power and Power-Quality

Hardware solutions for primary service or sub-metering
Advanced Software solutions include SATEC's

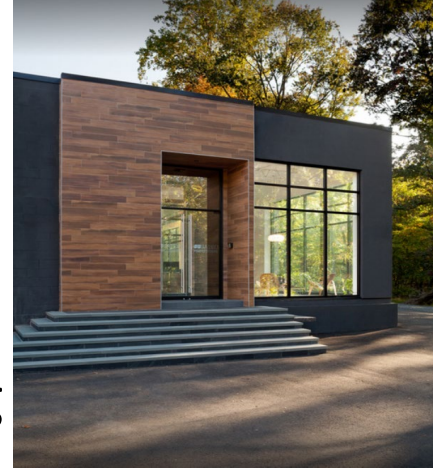
ExpertPower Dashboard and Reporting/Analysis/Billing Features
SATEC's Billing Service Team provides custom tenant billing services
as a full service offering with expertise in local regulations

SATEC has a unique reputation of being the *standard* people can rely
on for measuring energy usage, load profiling, and precise recording of
faults and power quality events

Corporate headquarters located in Union, NJ
SATEC is a member of the New Jersey Business
and Industry Association and the New Jersey
Technology Council



Union, NJ headquarters



Electrical Monitoring Solutions:

- Over a dozen models of metering hardware to fit customer applications
- Metering for Building Main, Critical Loads, Distribution, and Sub-Metering for ASHRAE or LEED requirements
- Tenant (Commercial/Residential) Sub-Metering solutions

Features:

- Revenue Grade ANSI C12.20 and IEC62053-22
- Resilient Historical Data Trending Solutions using Time-Stamped non-volatile on-board memory with programmable logging
- Volt/Amp/Power/Energy/PF/Harmonics/Directional energy/Time-Of-Use/more...
- Open Protocol Communication: Easily integrate with SCADA/BMS



PM130-PLUS



BFM Series: Multi-Point and Fault Recording



EM133- Din Rail Mount



PRO Series: Latest Generation

Advanced Power Quality:

- Fault Recording with High-Speed event triggering using advanced hardware
- Identifying Sag/Swell/Transient/Alarms/External Inputs from Relay's
- Multi-channel waveform recording with high precision customizable logs
- Sequence of Event with dozens of inputs and advanced software analysis
- PMU Synchrophasor
- Harmonic Analysis with directional harmonics and high order harmonics
- Alarm input/output, Programmable Control, open protocol SCADA/BMS integration, Long term historical data trending, Directional Energy totalizers, advanced Time Of Use programmable seasonal rate schedule accumulators



PM180 Series



**RGM-180
Remote Display**



PM172 Series



PM174 Series

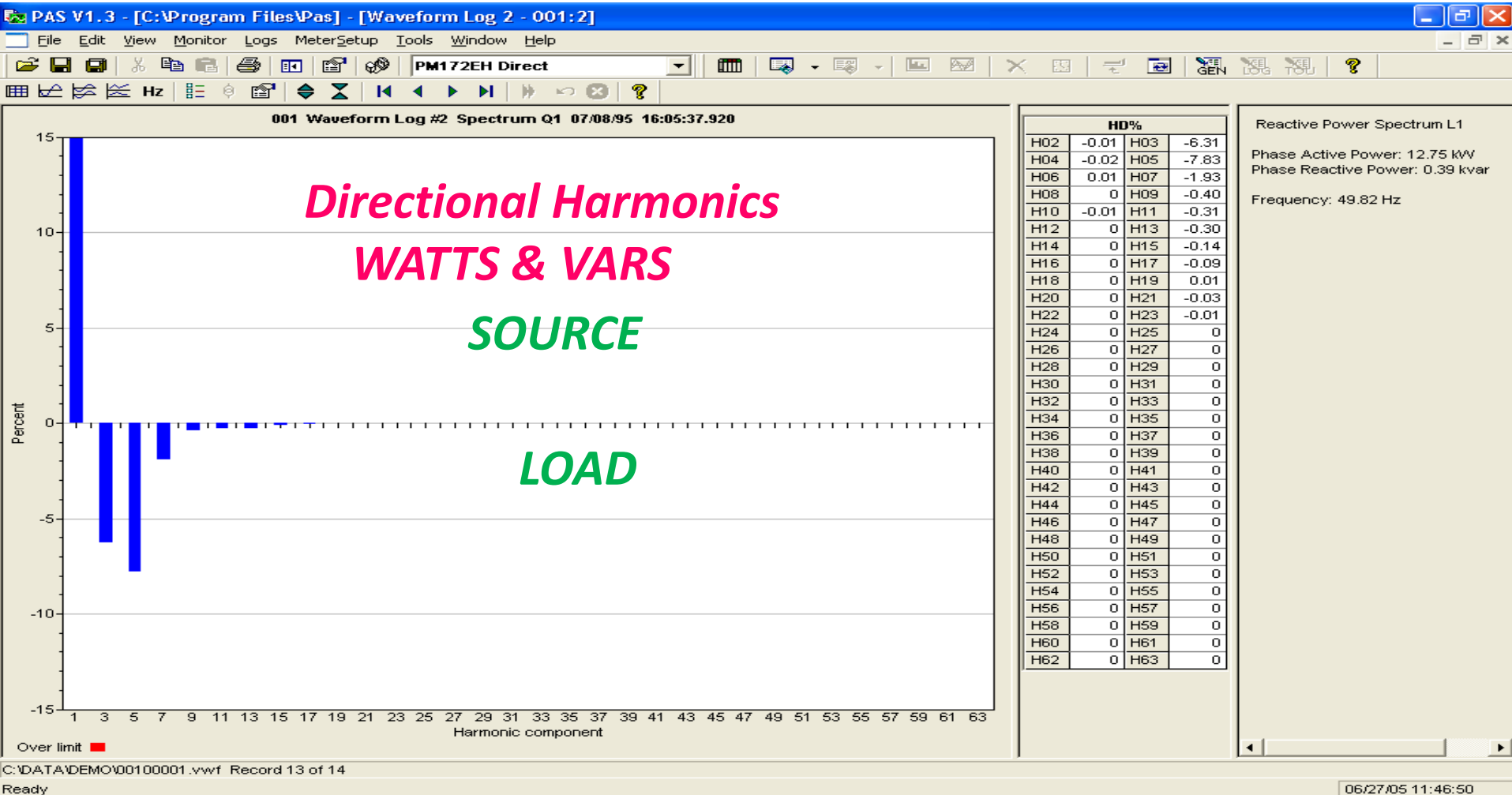


EM920 Series

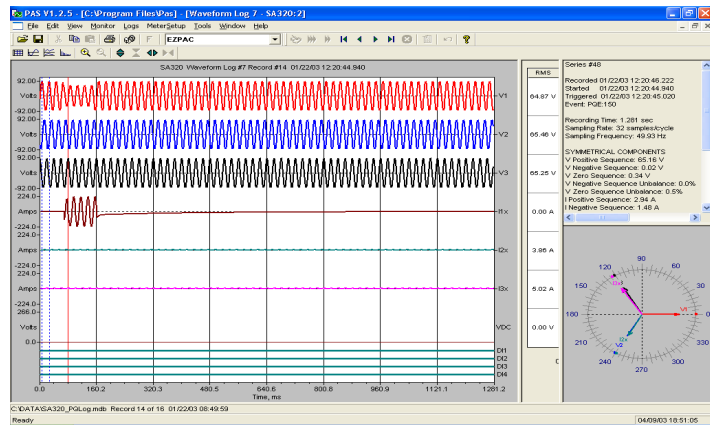
SATEC Data Management Solutions



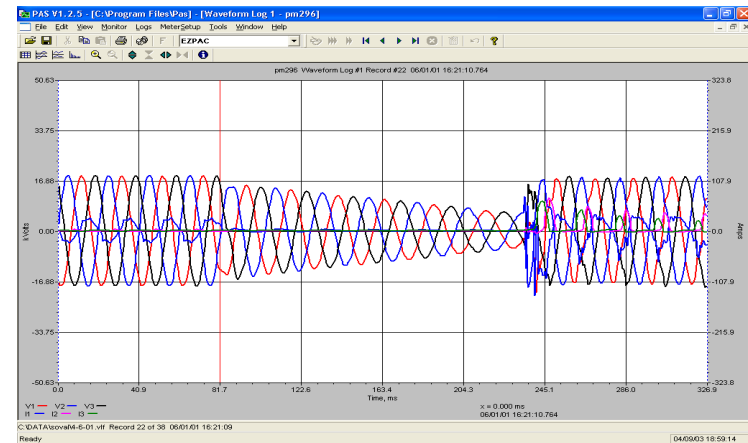
Detailed Harmonic Analysis



Three *Simultaneous* WAVEFORM RECORDERS LOGS

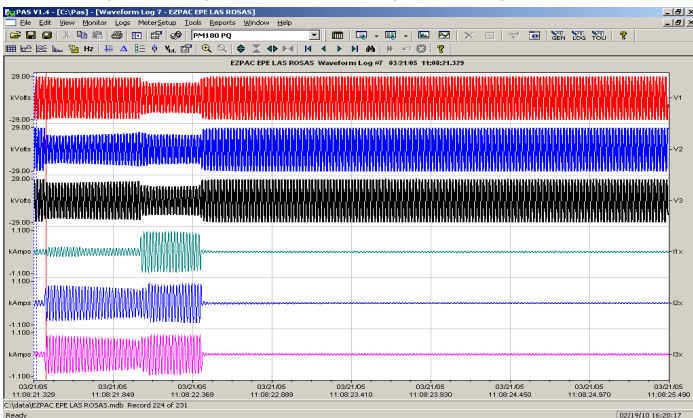


Waveform LOG #1-For System Protection Group
10 Channels at 128 samples / cycle – 64 cycle snapshot
Includes DC and 48 Digital Inputs
FAULT RECORDING – DC - BREAKER - SOE



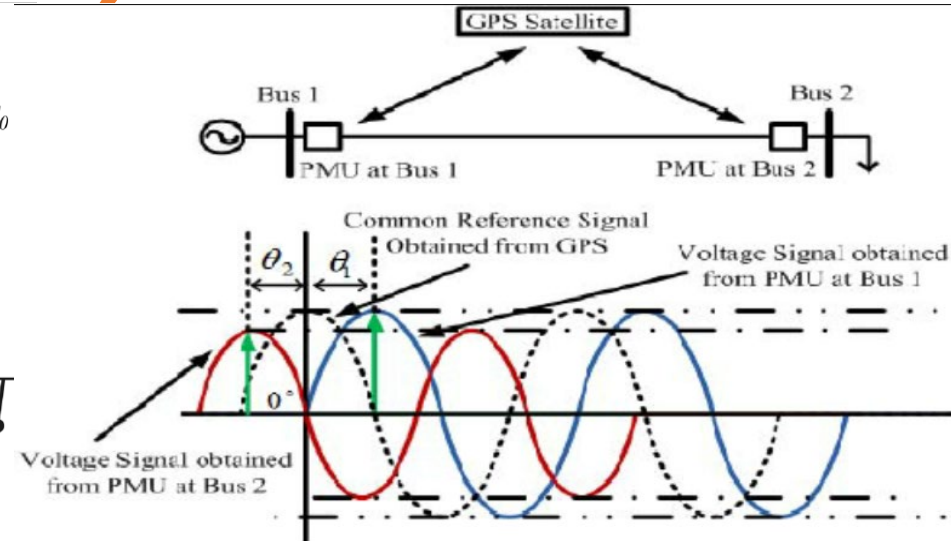
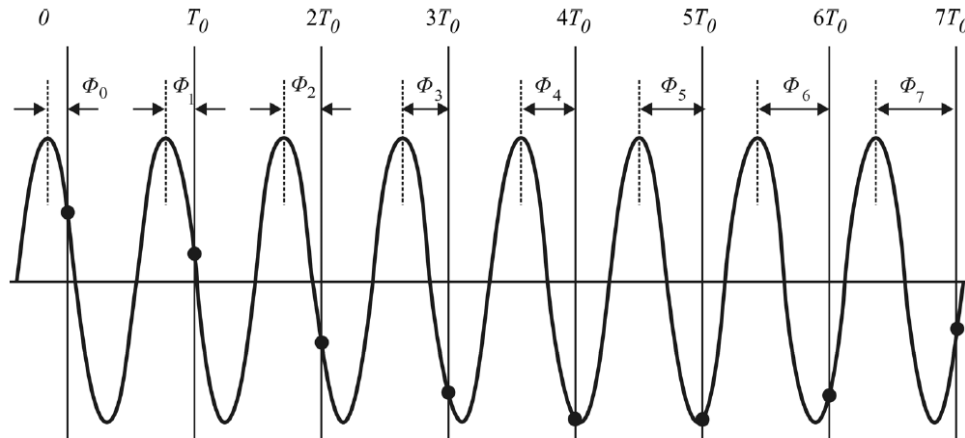
Waveform LOG # 2-For Power Quality Group
8 Channels 1024 samples / cycle
32 cycle snapshot
SAGS – SWELLS – IMPULSES
As per IEEE-1159 categories

Waveform LOG # 3 -For Motor Startup
64 samples / cycle – 10800 cycle snapshot (3 Min)



Phasor Measurement Unit (PMU)

IEEE Std C37.118.1-2011
IEEE Standard for Synchrophasor Measurements for Power Systems



IEEE Std. C37.118.1 - 2014



MOSENERGOSBYT

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