



PM180: Multifunction device with Phasor Measurement Unit



Main Substation Applications

PQA

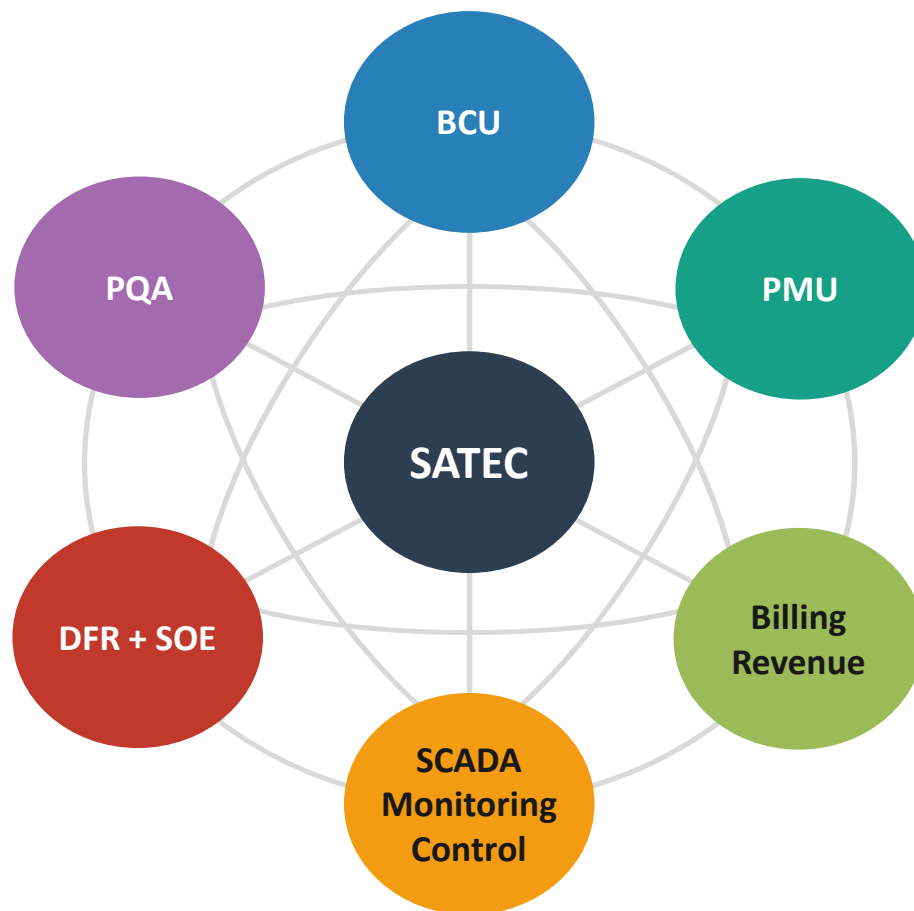
Power Quality Analyzer

DFR

Digital Fault Recorder with
distance to fault calculation

SCADA + Monitoring

Real time data from Substation



BCU

Bay Controller Unit

PMU/WAMS

Phasor Measurement Unit

SOE


Sequence of Events (SoE)

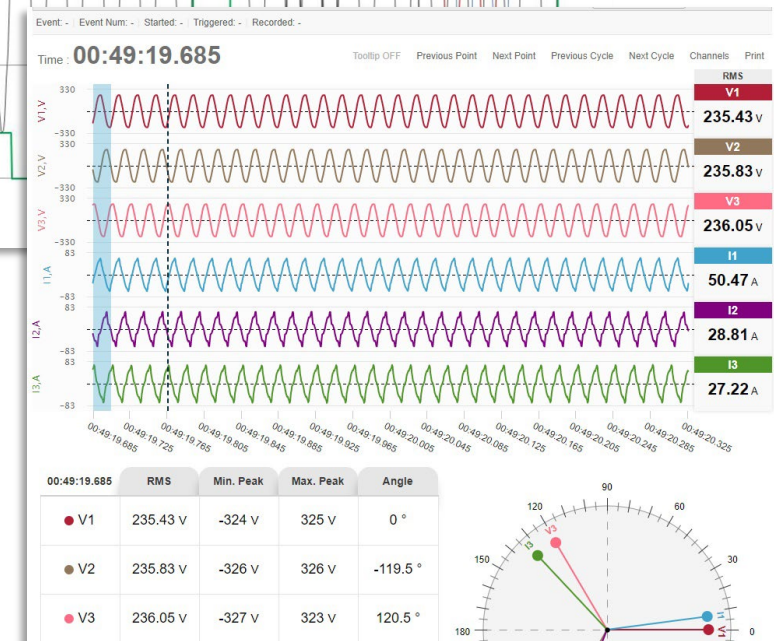
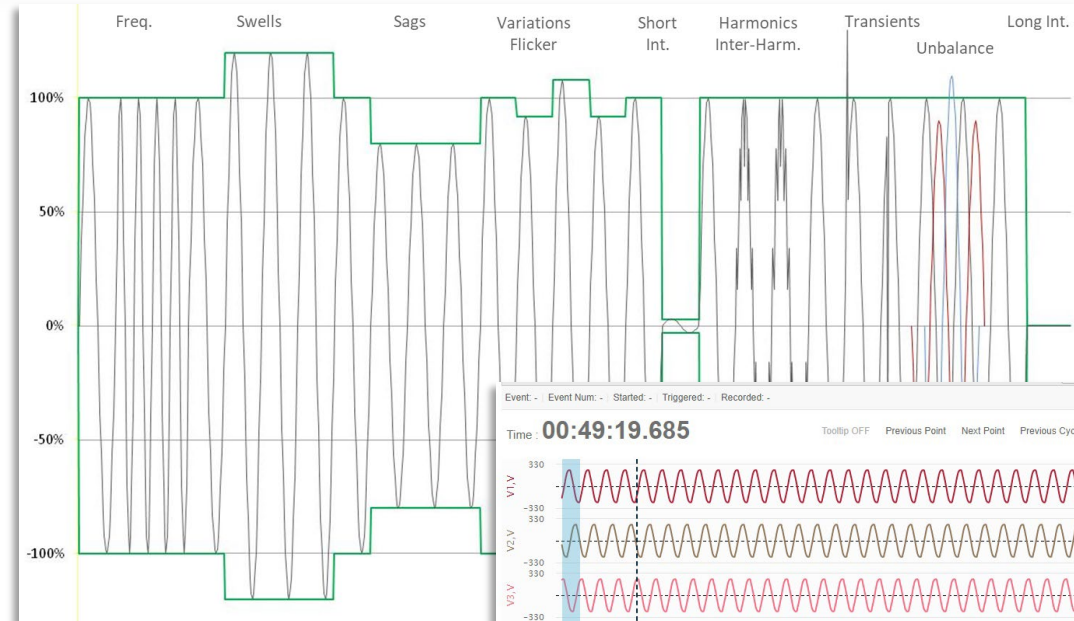
SATEC's PM180 Multi-function Device

- Full IEEE C37.118.1 compliance, for both:
 - M - Class
 - P - Class
- Full interoperability, featuring:
 - IEEE C37.118.2 protocol
 - IEC 61850-9-2 protocol
 - 5 streaming slots (UDP and TCP protocol)
- Optional clip-on CTs: no outage needed!
- Versatile micro-sec resolution time sync: PTP and IRIG-B
- Expected steady-state total vector error (TVE): < 0.05%



Multiple measurement capability and configurability

Device	PM180
Metric	
Measurement	½ cycle
Event & Data Log	✓
Waveform Log	✓
Sag/Swell	✓
Harmonics	✓
Transients	78/19 µS
PMU	50/60 fps





Thank you

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