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SATEC Announces “Add-On” Automation to Distribution FEEDER MONITORING with power quality features

Automating older substation panels is now easy with SATEC’S “Add On” automation. Instead of replacing existing protection relays, the new SATEC Model PM174 Power Quality (PQ) Feeder Monitor records information that these older, although highly reliable electro mechanical devices cannot provide. The SATEC concept of “Add-On to Automate” suggests retro fitting the old one dimensional electromechanical meters using the existing wiring, panels and the standard 4 inch round cutout to save time, money and resources. The SATEC solution gives total automation information, while co-existing with the electromechanical relays. Thereby extending the useful life of the EM relays by not interfering with the protection scheme. The once unobtainable EM relay information is now captured and transmitted to operations, system protection, and planning resulting in the most cost effective, fastest means to automate. “Add-On Automation” brings new life to legacy panels.

The new PM174 PQ Feeder Monitor is an advanced power analysis and control device, unmatched in the utility marketplace. It combines the functions of many intelligent electronic devices (IED) into one single powerful unit along with analytical intelligence. Types of information include the following:

- Accurate Measurements and Revenue Metering to ANSI C12.20 Class 0.2%
- 128 samples per cycle of waveform recording up to 20 cycles of pre-fault information
- Power Quality as per IEEE 1159 – SAG/SWELL/Transient – Phase, magnitude & duration
- Flicker with report writer
- Neutral current to help determine unbalanced load conditions and efficiency
- Individual Directional Harmonics (load/source)
- Data Logging and Trending (140 days)
- 2 Breaker Status Inputs – determine amount of operations and time stamp each event
- 2 relay outputs for alarm & control
- 2 analog outputs/inputs
- 2 independent communication ports RS232 & RS485 (Optional Ethernet or Modem)
- ASCII, MODBUS and DNP3.0 protocols included
- SCADA / e-mail / Web Access

The *SATEC Model PM174 PQ* Feeder Monitor is a revolutionary solution for substation distribution automation.



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