

Clark County School District installs Distribution TransFilters™ with Integrated Transformer Performance Meters™

Type TPM Integrated Performance Meters™ have been included on the ultra-efficient e-Rated™ Distribution TransFilters™ recently delivered to the Clark County School District.

In addition to their revenue class metering and data logging capabilities, these integrated power meters, with PQI's IEEE Std. C57.110 compliant software, also determine the transformer's losses and energy efficiencies under actual load factors and harmonic current profiles. The software also determines the transformer's nonlinear load related 'Penalty Losses' and EPA environmental benefits.

In the software's 'Transformer Comparison mode', given the cost of each transformer and the cost of energy, the software will compare the performance of any two transformer alternatives and calculate an annual saving, payback and return-on-investment, in a 'substitution' or a 'before end-of-life replacement' scenario.



*Ultra-Efficient e-Rated® Distribution TransFilters™
Installed in Clark County School District facility*

These best-in-class multifunction power and energy meters may also be used as data gathering devices for intelligent electrical distribution or plant automation systems. All monitored data is available via a digital RS485 communication port running Modbus RTU and DNP 3.0 protocols.

Additional communication options include Ethernet, Profibus DP, and BACnet. With its flexible, modular I/O and communication options, the Type TPM metering system is the most versatile and cost-effective solution available. With these capabilities, the Type TPM Integrated Performance Meter is LEED® Qualified for EA Credit Points.

Type TPM Integrated Performance Meters™ can be purchased separately for installation on existing power and distribution transformers. Their addition provides system-wide monitoring for energy management and future planning.



*Rick Lopez, PQI's Director of Sales
demonstrates the Type TPM Transformer Performance Meter
to Clark County School District's Facilities Department*

PQI IntelliEnergy™ Multi-Platform Access

Data Logging

The Type TPM meter offers 3 assignable historical logs where the majority of metering parameters can be recorded. The onboard memory is 8 MB and each log size is adjustable. A real-time clock allows for any logged events to be accurately time-stamped.

Time of Use (Optional)

Users can assign up to 4 different tariffs (sharp, peak, valley and normal) to different time periods within a day according to the billing requirements. The Type TPM meter will calculate and accumulate energy to different tariffs according to the meter's internal clock timing and TOU settings.

Waveform Capture (Optional)

The Type TPM can record 100 groups of voltage and current waveforms. It provides the waveform record of 10 cycles before and after the triggering point. It also supports a settable triggering condition.

Power Quality Event Logging (Optional)

When a power quality event happens, such as voltage sag or swell, etc., the Type TPM meter will record the time-stamp and the triggering condition of the event. It can save up to 50,000 power quality events.

Automatic Frequency Adaptation

The same meter can be used in countries with different electrical frequencies. The rated frequency is adjusted automatically to the local frequency such as 50Hz or 60Hz.

Selectable Current Input

The Type TPM meter is compatible with different current transformer outputs such as 5A, 1A, 80mA, 100mA, 200mA and 333mV CTs and Rogowski coils, which are all available from PQI.



Optional Add-Ons

Communication

- Modbus RTU Protocol and DNP 3.0 via RS485
- Ethernet [Modbus TCP, HTTP, SMTP, SNTP] (optional)
- Profibus DP (optional)
- BACnet IP, BACnet MS/TP (optional)
- Dual RS485 Communication Ports (optional)

Display

- Clear and Large Character LCD Screen Display with White Backlight
- Wide Environmental Temperature Endurance
- Displays Load Percentage, 4 Quadrant Powers, and Load Nature

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