

SECTION 16430

METERS

Part 1 -Design Directives

Each building on campus shall be metered for electrical consumption and demand on the secondary side of the building transformer. The meter shall be served by a dedicated set of current transformers wired through a shorting terminal block. When the building electrical system contains only panelboards the contractor shall provide a NEMA 1 enclosure to house the meter. The drawings shall include a detail for the field assembly and connection of meters and enclosures on panelboard installations.

Refer to section 16425 for additional details when installing the watt-hour meter into switchboards.

Part 2 -Products

General Electric EPM 7330 Digital Three Phase Power Meter configured for interface with Honeywell or Johnson DDC control systems and direct communications capability via TCP/IP output.

Power Measurement EPM-7330 Digital Three Phase Power Meter configured for interface with Honeywell or Johnson DDC controls and direct communications capability via TCP/IP output.

Cutler Hammer IQ Analyzer configured for interface with Honeywell or Johnson DDC controls and direct communications capability via TCP/IP output.

Square D Power Logic CM3250 configured for interface with Honeywell or Johnson DDC controls and direct communications capability via TCP/IP output.

Part 3 -Execution

All watt-hour meters shall be served by a dedicated set of current transformers wired through a shorting terminal block. One side of each current transformer shall be grounded. Voltage inputs are provided by a dedicated 3-pole 15 amp circuit breaker. Control power is provided by a dedicated 1 pole 15 amp circuit breaker. The control power input shall be wired through a fused disconnect switch located inside the metering compartment of switchboards or the revenue meter enclosure in panelboard type installations.