

PART 1

1.1

- .1 Materials, components, cabinets, instruments and installation for metering of branch circuits.

1.2

- .1 Section 01 33 00 - Submittal Procedures.
- .2 Section 01 74 21 – Construction/Demolition Waste Management and Disposal.
- .3 Section 26 05 00 - Common Work Results - Electrical.

1.3

- .1 American National Standards Institute (ANSI)
 - .1 ANSI C39.1, Requirements, Electrical Analog Indicating Instruments.
- .2 Canadian Standards Association, (CSA)
 - .1 CAN3-C17-M84, Alternating - Current Electricity Metering.

1.4

- .1 Indicate meter, and instrument, outline dimensions, panel drilling dimensions and include cutout template.

PART 2

2.1

- .1 Combination energy and demand meter: to CAN3-C17- AC Electricity Metering.
- .2 Accuracy: ± 1 %.
- .4 Ratings: as indicated.

2.2

- .1 Test terminal blocks: as required.

2.3

- .1 Digital indicating instruments: to ANSI C39.1.

- .2 Meter to display energy consumption (kwh), maximum and current energy demand (kva) for each branch circuit metered. Display to scroll through circuits connected. Each circuit to be able to be reset from pushbutton on panel face.

PART 3 EXECUTION

3.1 METERING INSTALLATION

- .1 Install meters and instruments in location free from vibration and shock.
- .2 Make connections in accordance with diagrams.
- .3 Locate metering equipment adjacent to branch panel board. Use separate conduit for each set of current transformer connections, exclusive for metering.

3.2 FIELD QUALITY CONTROL

- .1 Conduct tests in accordance with Section 26 05 00- Common Work Results – Electrical and in accordance with manufacturer's recommendations.
- .2 Perform simulated operation tests with metering, instruments disconnected from permanent signal and other electrical sources.
- .3 Verify correctness of connections, polarities of meters, instruments, potential and current transformers, transducers, signal sources and electrical supplies.
- .4 Perform tests to obtain correct calibration.
- .5 Do not dismantle meters and instruments.

END OF SECTION