

The Benefits of Intelligent Metering

- **Accurate Cost Allocation**
- **Cost Effective**
- **Convenient**
- **Easy To Install**

Automatic Remote Metering

The Intellimeter System lets you automatically read electrical energy usage at remote locations. The system is ideal for tenant monitoring applications in commercial buildings, shopping malls, airports and other applications requiring multiple point monitoring of electrical energy consumption.

The system uses patented metering and communications technology to deliver accurate and reliable readings and uses existing electrical wiring for communications within the system.

Easy to Install and Use

Mount the Intellimeter next to the electrical lines that supply the load to be measured. Tap into the voltage and install current transformers around the wire carrying current to the load.

Intellimeter meters the load and relays its dial readings to a Central Station. The Central Station conveys the dial readings to an on site or remote computer through a serial port or a modem.

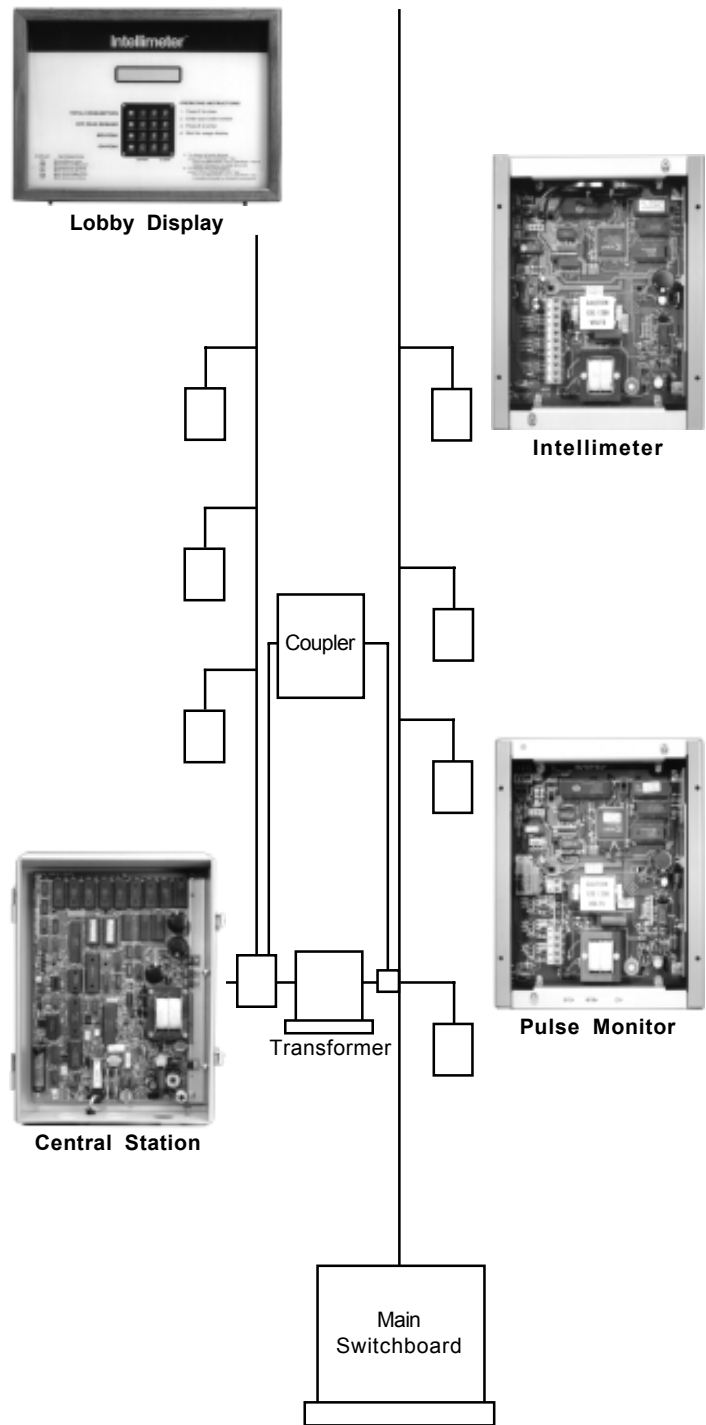
To make the system even easier to use, we offer a wide range of services from engineering to cost allocation and billing.

Features

- Measures kWh, kW Peak Demand, kW Demand Allocation and Time-of-Use Rates
- After hours metering
- Nonvolatile memory
- Self-diagnostic system
- Solid-state, fixed calibration of meters

Options

- Lobby displays
- Pulse monitors
- Reactive power and kVA metering
- Fiber optic communications
- Pulse output (KYZ)
- Local display



Typical System Diagram

Visit Us On The Web
<http://www.osc-intellimeter.com>

Features

- Nonvolatile, solid-state memory
- Independent operation
- Automatic self-testing and remote diagnostics
- Single or polyphase services
- Surface or flush mount
- Requires only line voltage and connection to through type current transformers
- Information communicated over existing wiring
- Adaptive communications routing ensures reliability in difficult and changing electrical conditions
- CUL Listed and complies with FCC rules and regulations
- Fiber optic communications options

Specifications

Electrical ratings

- Type K: 120/208V, 120/240V
- Type H: 277/480
- 60Hz, 9VA
- 1, 2, or 3-phase; 2, 3, or 4-wire
- Tolerance $\pm 25\%$ of nominal voltage

Power Factor: Accurate at any

Temperature: -20°C to $+50^{\circ}\text{C}$

Humidity: 0 - 95% noncondensing

Accuracy: Exceeds ANSI C12.1 and Canadian standards

Memory: Nonvolatile EEPROM

Burdens: 9VA max. overall, 0.1VA current circuit

Approvals: CUL, FCC Part 15 Class A and Class B, CSA, Industry and Science Canada
Legal Metrology AE-0504 Rev. 1

Communication: Power line carrier

Current

Transformers: 100mA output, open secondary, circuit protection, $\pm 0.1\%$ max. matching error

Optional:

- LCD Backlit Display
- Pulse Output (KYZ) for Building Management Systems

System Components

Central Station
14.8" H x 10" W x 3.8" D
Full width, door open 12.25"



Intellimeters
10" H x 8" W x 3" D



Pulse Monitors
10" H x 8" W x 3" D



Lobby Displays
Flush:
11" H x 15.5" W x 1" D
Surface:
11" H x 15.5" W x 3.5" D
Desk top:
6.4" H x 16.3" W x 12" D



LV Service Couplers
10" H x 8" W x 3" D



Fiber-Optic Communication Link

