



The Bert® 277 Inline

A Big Solution for Big Loads

The new Bert® 277I moves the Bert Inline Series into even higher loads. If your facility uses higher voltage devices such as indoor or exterior lighting, PTAC units, water heaters, kitchen hoods etc. then the Bert® 277 Inline is the measurement and control solution you've been seeking. Larger loads mean larger savings, but also require more powerful solutions. The Bert 277I can control loads up to 277 Volts and 20 Amps. Since its part of the Bert® Plug Load Management System, the 277I can be scheduled and controlled at the same time using the same application as the 110 volt members of the Bert® family.

- **Measure** energy use with Bert's real-time measurement features.
- **Analyze** energy use, establishing optimal schedules and documenting savings.
- **Control** plug based devices in mass throughout your facility.



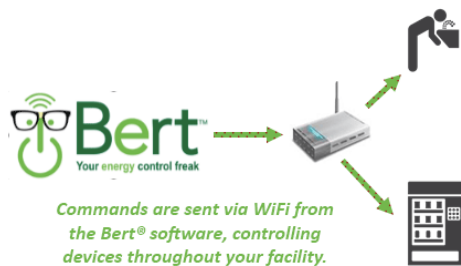
Bert 277I

The Plug Load Problem

Studies show that plug based load is a large and growing source of energy use estimated at 20% of energy use for offices and at 25% of energy use for schools. Yet many schools, offices and retail locations close for nearly as many hours per year as they are open. Bert® provides the simple, sophisticated tools to easily turn equipment on when buildings are occupied and off when they're not.

How Bert® Works

Each Bert® contains a Wi Fi microprocessor that communicates with our Bertbrain application software. Berts can be scheduled individually or in groups so you can set schedules that mirror the actual operating hours of your facility and easily modify schedules throughout the year.



277 Volt Applications

For facilities with a large number of higher voltage applications, such as PTAC units, water heaters, or kitchen hoods the Bert® 277I (Inline) is ideal. The unit can be installed on any circuit up to 277 Volts/ 20 Amps. Since the unit is wired into the circuit, it can measure and control a single device, a group of devices or an entire circuit. The circuit can be turned on or off remotely using the BertBrain® 1000 software.



Load Shedding

Many utilities offer demand management or load shedding programs. While you may already have programs to reduce larger centralized loads such as air conditioning, you never had a cost effective way to manage smaller distributed loads until now. The Bert® plug load management systems makes controlling distributed loads both simple and cost effective. Just hook your water heaters, air conditioners and vending machines up to Bert. Using our Bertbrain application you can set up a load shedding groups and schedules. Now when you have a load shedding event, with the click of a mouse you can easily turn off some or all of your plug load devices. Schedules can be created by groups of devices or type of building and you can even cycle specific buildings or devices for a preset time.

ASHRAE 90.1 and California Title 24 Code Compliance

Since, Bert provides both measurement and control capabilities in one system, the Bert Plug Load Management System helps commercial buildings comply with changes in the CA Title 24 2013 and the ASHRAE 90.1 2010 and 2013 Energy Codes. Did you know the 2010 ASHRAE Code requires “Automatic Receptacle Control” for 50% of a building’s receptacles? The 2013 ASHRAE Code requires “Electrical Energy Monitoring” meaning the receptacle circuit’s power must be recorded at least every 15 minutes and reported hourly, daily and monthly. Similar requirements are also included in the California Title 24 2013 section titled “Electrical Power Distribution Systems”. Not only do these code changes apply to new buildings and additions, but alterations to existing buildings such as changing 10% or your lighting load. Whether you are trying to control individual outlets with the Bert Smart Plugs or entire circuits with the Bert Inline Series, Bert makes ASHRAE 90.1 and CA Title 24 code compliance both affordable and efficient.

The Bert® Plug Load Management System

The Bert® Plug Load Management System consists of the Bertbrain 1000M software application, your Wi-Fi network, and a virtually unlimited number of Berts®. By simply plugging water coolers, coffee machines, printers, copiers, etc. into the Bert® Smart Plug Series (Bert® 110, Bert® 110M and Bert® Vend) or wiring circuits with the Bert® Inline Series (Bert® 110I, Bert® 110IR and Bert® 220I) you can remotely measure, analyze and control all of your receptacles and circuits. Bert® runs on the existing Wi-Fi network so all devices can be remotely controlled in mass. Each building can have a unique schedule, thus turning equipment off during nights, weekends and holidays when buildings are unoccupied. The Bert Plug Load Management System installs quickly so energy savings are immediate and payback is 1 to 2 years.

Learn more about how K-12 schools, colleges, offices, hospitals, state/local governments and retailers are managing plug load with the Bert® Plug Load Management System by visiting <http://www.bertbrain.com>.

Measure - Analyze - Control

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