

Panoramic Power P3E™ System monitors electrical energy consumption at individual circuit level and detects, via P3E™ sensors attached to the circuits, excess usage, allowing organizations to identify and reduce energy and maintenance expenses.

The Panoramic Power P3E™ sensors are non-invasive, self-powered, miniature wireless devices that snap-fit around the hot-wires in an electrical panel board. The sensor is powered by harvesting energy from the hot-wire via inductive coupling using current transformer. The sensor has a low power RF Transmitter which uses 2 Level GFSK modulation scheme.

The Data to be transmitted includes:

1. Hot-wire current sampled by the current transformer
2. On message (as soon as there is enough power for the sensor to operate)
3. Off message (last message before the sensor is losing power due to the shutting off the power from the hot-wire)