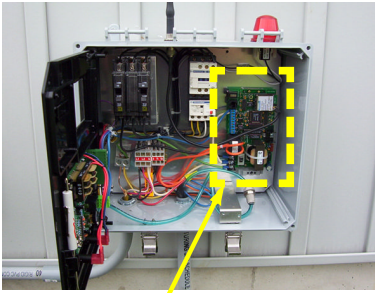


AAT 8830 Wireless Device Controller



THE AAT 8830 WIRELESS DEVICE CONTROLLER IS THE FIRST CHOICE FOR MEASURING, REPORTING AND CONTROLLING REMOTE ENERGY DEVICES.

Device Control

- End-Point Equipment
- Electrical Devices
- Industrial Equipment
- Pending Equipment Failure Detection
- Sense Amperage & AC Voltage
- User Defined Threshold Alarms
- Alarms Immediately Sent to E-mail/Cell Phone SMS
- Real-Time Alarm Notification

The AAT 8830 Wireless Device Controller is part of an Advanced AMR Technologies (AAT) wireless-to-Internet Energy Information and Control System (EICS). The 8830 Wireless Device Controller offers a full range of monitoring, measuring and remote device control via a long range fixed wireless mesh network.

ADVANCED ENERGY MANAGEMENT

The AAT 8830 measures voltage and current from end-point equipment including sewer pumps, irrigation pumps, A/C units, chillers and other high energy consumption devices. It monitors run time, start and stop time, current amperage draw, AC voltage consumed and ambient temperature. The user defines threshold limits for these measurements. It detects and sends alarms in real-time via e-mail, SMS cell phone and is reported in an online profile any time there is an occurrence where end-point equipment exceeds customized threshold limits.

REAL-TIME ALARM NOTIFICATION

The EICS software enables the energy administrator to set custom alarm thresholds to track amperage and AC voltage input levels. If amperage should rise above or fall below this threshold, a time and date

stamp report is immediately communicated. The unit goes into safe mode using an optional relay to shut off power. This protects the end-point equipment connected to the 8830 and reduces the likelihood of damage due to power surges or an unexpected drop in voltage. When alarm conditions return to a normal state, a restoral notification is sent via e-mail and/or cell phone SMS.

COST EFFECTIVE SOLUTION

Advanced AMR Technologies provides AMR and Energy Management solutions without costly outlays for wiring, cabling, radio towers, substation modifications or other communications infrastructure. AAT wireless monitoring devices provide their own communication network, eliminating high infrastructure costs or expensive monthly fees for telephone or cellular use.

AAT ENERGY INFORMATION & CONTROL SYSTEM (EICS)

The EICS monitors the network, collecting and analyzing incoming data. A browser-based interface integrates charting tools to analyze energy usage data for energy management, load control, demand response and billing purposes.

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TECHNICAL SPECIFICATIONS

Radio

- Licensed High Power Frequency for longer range than unlicensed frequencies
- UHF 450-470 MHz Band
- NTIA Narrowband Compliant (12.5kHz)
- User defined radio transceiver power from 32 mW to 800 mW

Input/Output

- On Board 20 Amp CT for measuring amperage
- Programmable upper and lower limits +120 VAC alarm circuit
- AAT Temperature probe using RJ-22 - Temperature probe range 67°F to +257°F (-55°C to 125°C)
- Manual reset button
- Selectable AC voltage switch 110/220
- AC load detection 110/220
- Operates in local time with auto day-light savings mode
- Load control using optional (5V) relay

Operating temperatures

-22°F – 140°F (-30°C – 60°C)

Board dimensions

6" x 3.5" x 2.25" (15.2 x 8.9 x 5.7 cm)

Approximate total weight

1 lb. (.45 Kg)

Options:

- DIN Rail Mount
- Enclosure

Wireless Meter Interface Unit (MIU) read meter data at up to 15 minute intervals and forwards the data via hopping through other MIUs to Wireless concentrators.

