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New Information

Power Management Systems Central Energy Display (CED)

Central Energy Display (CED)

Applications

- Display for up to 50 IQ Energy Sentinel and IQ Power Sentinels
- Peak demand alarms
- Watt-hour pulse initiator
- Sync pulse input
- Communication alarms.

Displayed Parameters

The following are displayed on the membrane NEMA 3R, 12 faceplate:

- Energy – forward and reverse (watt-hours)
- Peak power demand
- Power (watts)
- Present power demand
- Group readings – able to sum the energy, present demand, and peak demand readings for up to 8 customer selected device groups
- Status of device
  – Active
  – Inactive
  – No response
- Historical alarm log
- User-programmed, custom description of each device
- Data and time.

Communications

- Built-in communications to downstream IQ Sentinels
- Accepts PONI for upstream communications to a remote computer.

Physical Characteristics

- Graphical, glass plasma display
- Up to seven lines of information
- Height: 10.25 inches
- Width: 6.72 inches
- Depth: 4.70 inches without PONI, 5.83 inches with PONI
- Membrane faceplate NEMA 3R and 12 rated.



General Description

The IQ Central Energy Display II (IQ CED II) can monitor and display the energy parameters of up to 50 IQ Energy Sentinels (see list at left). The IQ CED II is a compact, panel-mounted device which provides a centralized alternative to individually mounted watt, watt-hour, and watt demand meters.

Programmable Alarms

The IQ CED II can be programmed to alarm for any of the following conditions:

- Peak demand exceeded user programmed maximum (individual or group)
- Device inactive or no response.

During set-up, the customer is given the option of deciding whether or not a security access code is needed to acknowledge and reset alarms. Alarms can also be acknowledged and reset over Cutler-Hammer PowerNet.

Communications

Communications between the IQ CED II and IQ Energy Sentinels is accomplished over a twisted pair of conductors on the highly reliable INCOM local area network. A subset of information equivalent to the IQ Energy Sentinel is displayed from power sentinels. All information is still available at a remote PC.

The IQ CED II communicates to its subnetwork at either 1200 or 9600 baud. Maximum total distance is 7500 feet.

The IQ CED II may be used to program the CT ratio settings of Universal mount IQ Energy Sentinels for external CTs.

The IQ CED II can communicate to its subnetwork at up to 9600 baud. The subnetwork of up to 50 IQ Energy or Power Sentinels may extend up to 7500 feet. This distance is not counted as part of the main network when tied back to a monitoring PC.

The remote communications option can be included at any time by mounting the PONI module to the IQ CED II. No reprogramming of the IQ CED II is required.

Self-Learning

The IQ CED II polls its subnetwork and stores the addresses of the IQ Energy Sentinels. This is done automatically after the unit is turned on for the first time, or may be operator invoked in the program mode.

A custom description for each device can be entered on the 8-digit alpha-numeric window of the IQ CED II for easy location reference or down-loaded through Cutler-Hammer PowerNet software.

Non-Volatile Memory

There is no need to reload after an ac power loss. The addresses, description of devices, and desired alarming that are programmed in memory during the learn mode are retained throughout a power loss. Unless there has been a change in the local area network, it is not necessary to re-enter the learn mode. The real-time clock is battery backed. Once the time is set, there is no need to reload it, even if control power is lost.

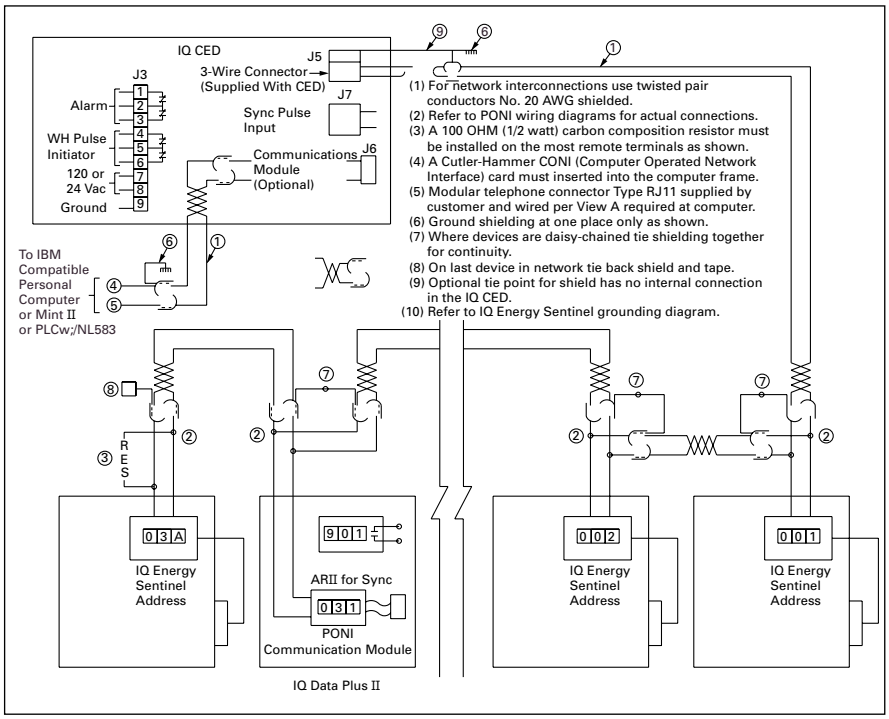
User Friendly

- Operator panel (faceplate) is self-explanatory.
- A "HELP" function key scrolls explanations across the alpha-numeric window.
- Self-learning.
- Minimal external connections (3 wires for ac input and 2 wires twisted pair for communications).

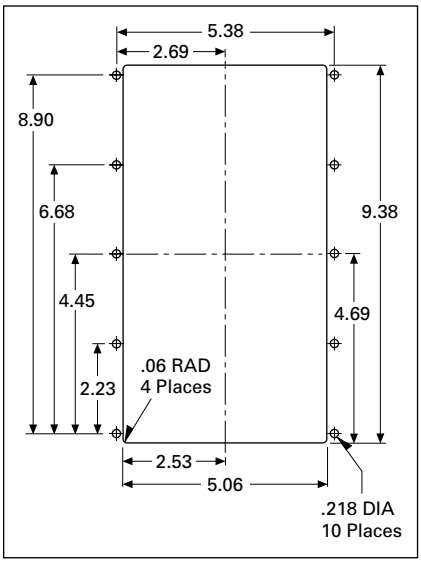
Flexible

- Programmable watt-hour pulse output for a (user defined) group of IQ Energy Sentinels.
- Can be mounted at a remote location to monitor one or more assemblies (up to 7500 feet away).
- Can be mounted directly onto assemblies.
- Remote communications option can be added at any time. No internal changes are required.
- Can interface with a variety of Cutler-Hammer PowerNet networks.

Wiring Diagram



Drilling Pattern



Specifications

Power Requirement

10 VA maximum

Input Voltage

120 or 240 Vac (±20%)
Auto selecting

Frequency

50 or 60 Hz

Operating Temperature

0° to 70°C
(32° to 158°F)

Storage Temperature

- 20° to 85°C
(-40° to 185°F)

Humidity

5% to 95% R.H. non-condensing

Alarm Contact Ratings

10A at 277 Vac (resistive)
10A at 30 Vdc (resistive)
1/3 Hp 125, 250 Vac

Ordering Information

Central Energy Display

Description	Catalog Number
IQ Central Energy Display II	**IQCEDII**

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