

## kWh Energy Display

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### Overview

The model LCDB-E display is a totalizing pulse counter used with WattNode Pulse meters to display kilowatt-hour (kWh) energy consumption. The display connects to the meter's pulse output and accumulates the kWh energy pulses from the meter. This display offers a low cost solution for tenant sub-metering and equipment monitoring applications.



Energy consumption is calculated by subtracting the previous display reading from the present reading. This improves reliability and prevents tampering.

The display can be mounted in a rectangular cutout on the front of a service panel, junction box, or other enclosure up to 100 feet from the WattNode Pulse meter.

A specially configured WattNode Pulse meters that outputs one pulse per kWh is required for use with the display. All WattNode Pulse meter models from 120 volt to 600 volt can be configured for use with LCDB-E display. Current transforms (CTs) rated from 100 amps to 6000 amps can be used. Note that a 100 amp rated Accu-CT model ACT-0750-100 measures accurately down to below 1 amp.

### Features

- LCD 8 digits high contrast display
- Works out of the box—no configuration required
- Screw terminals for fast installation
- Installs up to 100 feet from the meter
- Long 15+ year battery life
- UL and cUL/CSA, CE Recognized

### How to Order

The WattNode Pulse meter must be ordered with the following Options:

- CT=xxxx (rated amperage from 100 to 6000 amps)
- Kh=1000 (watt-hour constant)
- PW=20 (output pulse width)

For a typical residential application order the following equipment:

1 each meter: WNB-3Y-208-P Opt Kh=1000,CT=100,PW=20

2 each current transformers: ACT-0750-100

1 each display: LCDB-E

## Specifications

### General

LCD: 8 digit black characters 0.32 in. (8 mm) high  
 Count Range: 99999999 – rollovers over to zero  
 Scaling: 1 pulse per kWh from 100 amps to 6000 amps  
 Connections: screw terminals, 16 AWG maximum  
 Approvals: CE compliant, UL & cUL recognized

### Mechanical

Mounting: Front panel with supplied rear panel clip  
 Dimensions Overall: 1.10 H x 2.00 W x 1.50 D in. (27.9 x 50.8 x 38.0 mm)  
 Panel Cutout: 0.89 H x 1.79 W (22.6 x 45.5 mm)  
 Recommended Panel Thickness: 0.125 in. (3.1 mm)  
 Packed Weight: 2 oz. (57 g)

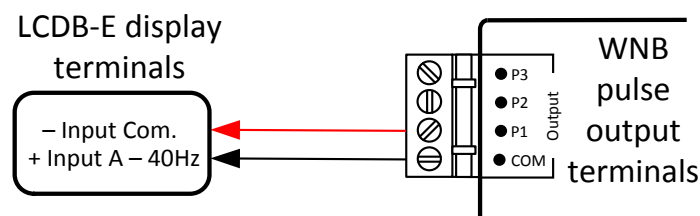
### Environmental

Environmental: (Storage & Operating) – 4°F to 140°F (–20°C to +60°C)  
 Humidity: 0 to 95% RH, non-condensing  
 Altitude 6562 ft. (2000 m)

### Electrical

Power: 15 years + non-replaceable lithium battery  
 Pulse Input: dry contact up to 100 feet (30 m) from display  
 Pulse Rate: 0 to 40 Hz, negative edge, 15 mS minimum closure time

### Wiring Connections



### Model and Pricing

LCDB-E list price quantity one \$50.00 each  
 Call for pricing on larger quantities.