With this solid-state meter, Itron presents a platform for residential metering with the flexibility to adapt as your needs expand and change. The CENTRON CN1S solid-state meter is used to measure network energy consumption. It is available as an energy meter with an LCD register. As an option, the meter is available with interchangeable personality modules, including demand, time-of-use (TOU), load profile, and various communication options.

**FEATURES**

**Flexible Platform**
- The CENTRON meter can easily be upgraded to any of the option modules available
- All calibration data is permanently stored in the base of the meter on the CENTRON metrology board

**Personality Modules**
- The interchangeable personality modules are part of a snap-in register assembly
- The personality module houses all register or communication functions

**Enhanced Performance**
- Low starting watts
- Low burden
- Captures energy that was not monitored in the past by electromechanical meters

**Tamper Resistant**
- Measures energy even if the meter is inverted

**Standard Features**
- Electronic LCD register
- Polycarbonate cover
- Test LED

**Option Module Upgrades**
- Demand module (C1SD)
- TOU with demand module (C1ST)
- Load profile with TOU and demand module (C1SL)
- R300 900 MHz RF module (C1SR)

**Option Availability**
- Glass cover
- Electronic detent
- Identification/Accounting aids

**Technical Data**
- Meets applicable standards:
  - ANSI C12.1 - 1995
  - ANSI C12.10 - 1997
  - ANSI C12.20 (Class 0.5) - 1998
  - ANSI C37.90.1 - 1989
  - ANSI C62.45 - 1992
  - IEC 61000-4-4
  - IEC 61000-4-2

**Reference Information**
- CENTRON Technical Reference Guide
- CENTRON C1SR Specification Sheet
- CENTRON C1SC Specification Sheet
- CENTRON C1SD, T, L Specification Sheet
- Hardware Specification Form
- ZRO-C2A Handheld Meter Retester Instruction
### Product Availability

<table>
<thead>
<tr>
<th>Volts/Service</th>
<th>Meter Class</th>
<th>Test Amps</th>
<th>Kh (Pulse/Wh)</th>
<th>Form</th>
<th>Register Description</th>
<th>Digits/ Mult</th>
<th>Catalog Number Glass</th>
<th>Catalog Number Poly</th>
</tr>
</thead>
<tbody>
<tr>
<td>120V 3-wire</td>
<td>200</td>
<td>30</td>
<td>1.0</td>
<td>12S</td>
<td>LCD</td>
<td>5x1</td>
<td>98098</td>
<td>98099</td>
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<tr>
<td>120V 3-wire</td>
<td>200</td>
<td>30</td>
<td>1.0</td>
<td>25S</td>
<td>LCD</td>
<td>4x10</td>
<td>98098</td>
<td>98099</td>
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<tr>
<td>120V 3-wire</td>
<td>200</td>
<td>30</td>
<td>1.0</td>
<td>12S</td>
<td>LCD</td>
<td>4x10</td>
<td>98098</td>
<td>98099</td>
</tr>
</tbody>
</table>

### Dimensions

#### Polycarbonate

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.29&quot;</td>
<td>6.95&quot;</td>
<td>2.7&quot;</td>
<td>3.16&quot;</td>
<td>4.53&quot;</td>
<td>6.29&quot;</td>
<td>6.95&quot;</td>
</tr>
<tr>
<td>16 cm</td>
<td>17.7 cm</td>
<td>6.9 cm</td>
<td>8 cm</td>
<td>11.5 cm</td>
<td>16 cm</td>
<td>17.7 cm</td>
</tr>
</tbody>
</table>

#### Glass

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.42&quot;</td>
<td>6.95&quot;</td>
<td>3.03&quot;</td>
<td>3.55&quot;</td>
<td>4.9&quot;</td>
<td>6.42&quot;</td>
<td>6.95&quot;</td>
</tr>
<tr>
<td>16.3 cm</td>
<td>17.7 cm</td>
<td>7.7 cm</td>
<td>9 cm</td>
<td>12.5 cm</td>
<td>16.3 cm</td>
<td>17.7 cm</td>
</tr>
</tbody>
</table>

### Specifications

#### Power Requirements
- Voltage rating: 240 V
- Frequency: 60 Hz
- Operating voltage: ±20%
- Operating range: ±3 Hz

#### Operating Environment
- Temperature: -40° to +85°C
- Humidity: 0% to 95% non-condensing

#### Transient/Surge Suppression
- ANSI C37.90.1-1989
- IEC 61000-4-4
- ANSI C62.45-1992

#### Accuracy
- ANSI C12.20 0.5 Accuracy Class

#### General LCD Display
- Five-digit liquid crystal display
- Annunciator height: 0.088"
- Data digit height: 0.4"
- Electronic load indicator

#### Characteristic Data
- Starting Watts: 5 Watts
- Temperature Rise Specifications: Meets ANSI C12.1 Section 4.7.2.9

#### Burden Data
- Voltage circuit:
  - Voltage: 120
  - Watts: 0.65
  - VA: 5.4
- Current coil-self contained test amp current: 60 Hz
- Service: 3-Wire
- Test current (amps): 30
- VA: <0.50

### Shipping Weights

#### Polycarbonate

<table>
<thead>
<tr>
<th>4 Meter Cartons</th>
<th>120 Meter Pallets</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.9 lbs</td>
<td>260-265 lbs</td>
</tr>
<tr>
<td>4.04 kg</td>
<td>117.936 kg</td>
</tr>
</tbody>
</table>

#### Glass

<table>
<thead>
<tr>
<th>4 Meter Cartons</th>
<th>120 Meter Pallets</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.96 lbs</td>
<td>335 lbs</td>
</tr>
<tr>
<td>6.35 kg</td>
<td>151.956 kg</td>
</tr>
</tbody>
</table>

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At Itron, we're dedicated to delivering end-to-end smart grid and smart distribution solutions to electric, gas and water utilities around the globe. Our company is the world’s leading provider of smart metering, data collection and utility software systems, with over 8,000 utilities worldwide relying on our technology to optimize the delivery and use of energy and water.

To realize your smarter energy and water future, start here: [www.itron.com](http://www.itron.com)