

# CN1S CENTRON<sup>®</sup>

## introduction

### **CENTRON<sup>®</sup> CN1S**

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. 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



# features

## 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
- > Electricity Price Bulletin
- > Hardware Specification Form
- > ZRO-C2A Handheld Meter Resetter Instruction

## Product Availability

Volts & Service	Meter Class	Test Amps	Kh (Pulse/Wh)	Form No.	Register Description	Digits & Multipliers	Catalog with Glass	Catalog with Poly
120V 3-wire	200	30	1.0	12S	LCD	5 X 1	98098	98099
120V 3-wire	200	30	1.0	25S	LCD	5 x 1	98110	98111
120V 3-wire	200	30	1.0	12S	LCD	4 x 10	98100	98101
120V 3-wire	200	30	1.0	25S	LCD	4 X 10	98112	98113
120V 3-wire	200	30	1.0	12S	R300	5 X 1	98166	98167
120V 3-wire	200	30	1.0	25S	R300	5 x 1	98170	98171
120V 3-wire	200	30	1.0	12S	R300	4 x 10	98168	98169
120V 3-wire	200	30	1.0	25S	R300	4 X 10	98172	98173

# specifications

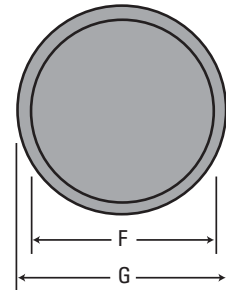
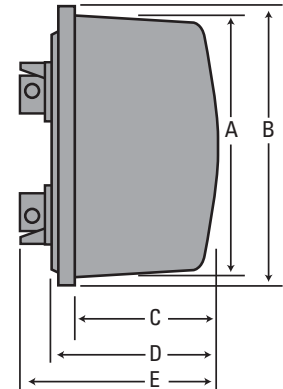
## Dimensions

### Polycarbonate

A	B	C	D	E	F	G
6.29"	6.95"	2.7"	3.16"	4.53"	6.29"	6.95"
16 cm	17.7 cm	6.9 cm	8 cm	11.5 cm	16 cm	17.7 cm

### Glass

A	B	C	D	E	F	G
6.42"	6.95"	3.03"	3.55"	4.9"	6.42"	6.95"
16.3 cm	17.7 cm	7.7 cm	9 cm	12.5 cm	16.3 cm	17.7 cm



## Shipping Weights

### Polycarbonate

4 Meter Cartons	Approx. 8.9 lbs.	4.04 kg
96 Meter Pallets	Approx. 214 lbs.	97.30 kg

### Glass

4 Meter Cartons	Approx. 13.96 lbs.	6.35 kg
96 Meter Pallets	Approx. 335 lbs.	152.30 kg

## Specifications

### Power Requirements

Voltage Rating: 120 V  
Frequency: 60 Hz

Operating Voltage:  $\pm 20\%$   
Operating Range:  $\pm 3$  Hz

### Operating Environment

Temperature:  $-40^{\circ}$  to  $+85^{\circ}\text{C}$   
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  
Data Digit Height: 0.4"  
Annunciator Height: 0.088"  
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

## profile

### **Itron Inc.**

Itron is a leading technology provider and critical source of knowledge to the global energy and water industries. Nearly 3,000 utilities worldwide rely on Itron technology to deliver the knowledge they require to optimize the delivery and use of energy and water. Itron delivers value to its clients by providing industry-leading solutions for electricity metering; meter data collection; energy information management; demand response; load forecasting, analysis and consulting services; distribution system design and optimization; web-based workforce automation; and enterprise and residential energy management.

**To know more, start here: [www.itron.com](http://www.itron.com)**



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