

## profile

### Itron Inc.

Itron is a leading technology provider and critical source of knowledge to the global energy and water industries. More than 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)



### Itron Inc.

#### Corporate Headquarters

2818 North Sullivan Road  
Spokane Valley, WA, 99216, USA  
Phone: 1.800.635.5461  
Fax: 1.509.891.3355

### Itron Inc.

#### Oconee Electricity Metering

313-B North Highway 11  
West Union, SC 29696, USA  
Phone: 1.864.638.8300  
Fax: 1.864.638.4950



## introduction

### CENTRON® C1S Transformer-Rated Meter

The CENTRON transformer-rated solid-state meter is used for measuring singlephase energy consumption. It is available as an energy meter with either an LCD, clock, or cyclometer 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

- > The CENTRON meter's improved performance, such as low starting watts and low burden, captures energy that was not monitored in the past by electromechanical meters.

### Tamper Resistant

- > For tamper protection, the CENTRON meter measures energy even if the meter is inverted.

### Standard Features

- > Electronic LCD register
- > Polycarbonate cover
- > Test LED

### Option Availability

- > Mechanical clock register
- > Mechanical cyclometer register
- > Glass cover
- > Electronic detent
- > Identification/accounting aids

C1S Transformer-Rated  
**CENTRON®**

# specifications

## 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)

## 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 Instructions

## 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

## Product Availability

Volts & Service	Meter Class	Test Amps	Kh (Pulse/Wh)	Form No.	Register Description	Digits & Multipliers	Catalog Number w/glass	Catalog Number w/poly
120V 2-wire	20	2.5	1.0	3S	Clock	5 x 1	98054	98055
120V 2-wire	20	2.5	1.0	3S	Clock	4 x 10	98056	98057
120V 2-wire	20	2.5	1.0	3S	Cyclometer	5 x 1	98058	98059
120V 2-wire	20	2.5	1.0	3S	Cyclometer	4 x 10	98060	98061
120V 2-wire	20	2.5	1.0	3S	LCD	5 x 1	98062	98063
120V 2-wire	20	2.5	1.0	3S	LCD	4 x 10	98064	98065
120V 2-wire	20	2.5	1.0	3S	R300C	5 X 1	98154	98155
120V 2-wire	20	2.5	1.0	3S	R300C	4 X 10	98156	98157
120V 2-wire	20	2.5	1.0	3S	CellNet	5 X 1	98126	98127
240V 2-wire	20	2.5	1.0	3S	Clock	5 x 1	98066	98067
240V 2-wire	20	2.5	1.0	3S	Clock	4 x 10	98068	98069
240V 2-wire	20	2.5	1.0	3S	Cyclometer	5 x 1	98070	98071
240V 2-wire	20	2.5	1.0	3S	Cyclometer	4 x 10	98072	98073
240V 2-wire	20	2.5	1.0	3S	LCD	5 x 1	98074	98075
240V 2-wire	20	2.5	1.0	3S	LCD	4 x 10	98076	98077
240V 2-wire	20	2.5	1.0	3S	R300C	5 X 1	98158	98159
240V 2-wire	20	2.5	1.0	3S	R300C	4 X 10	98160	98161
240V 2-wire	20	2.5	1.0	3S	CellNet	5 X 1	98130	98131
240V 3-wire	20	2.5	1.0	4S	Clock	5 x 1	98078	98079
240V 3-wire	20	2.5	1.0	4S	Clock	4 x 10	98080	98081
240V 3-wire	20	2.5	1.0	4S	Cyclometer	5 x 1	98082	98083
240V 3-wire	20	2.5	1.0	4S	Cyclometer	4 x 10	98084	98085
240V 3-wire	20	2.5	1.0	4S	LCD	5 x 1	98086	98087
240V 3-wire	20	2.5	1.0	4S	LCD	4 x 10	98088	98089
240V 3-wire	20	2.5	1.0	4S	R300C	5 X 1	98162	98163
240V 3-wire	20	2.5	1.0	4S	R300C	4 x 10	98164	98165
240V 3-wire	20	2.5	1.0	4S	CellNet	5 X 1	98134	98135

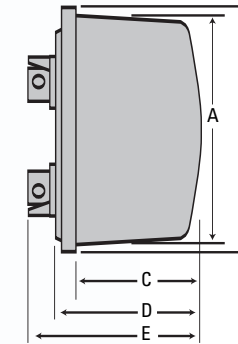
# specifications

## Specifications

Power Requirements	Voltage Rating: 120V, 240V 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 Data digit height: 0.4" Annunciator height: 0.088" Electronic Load Indicator	
Characteristic Data	Starting Watts: Temperature Rise Specifications:	3S-1.2 Watts; 4S-2.4 Watts Meets ANSI C12.1 Section 4.7.2.9
Burden Data	Voltage Circuit:  Current Coil-Self Contained Test Amp Current 60 Hz: Service 3-Wire	120V: 0.65 Watts and 5.4 VA 240V: 0.65 Watts and 10.2 VA  Test Current (Amps) 30; VA < 0.50

## Dimensions

Polycarbonate							
A	B	C	D	E	F	G	
6.29"	6.95"	2.7"	3.16"	4.53"	6.29"	6.95"	
16c	17.7c	6.9c	8c	11.5c	16c	17.7c	
Glass							
A	B	C	D	E	F	G	
6.42"	6.95"	3.03"	3.55"	4.9"	6.42"	6.95"	
16.3c	17.7c	7.7c	9c	12.5c	16.3c	17.7c	



## Shipping Wt.

Polycarbonate	Pounds	Kilograms
4 Meter Cartons	8.9 lbs	4.04 kg
96 Meter Pallets	214 lbs	97.30 kg
Glass	Pounds	Kilograms
4 Meter Cartons	13.96 lbs	6.35 kg
96 Meter Pallets	335 lbs	152.30 kg

