

# C1S Transformer-Rated CENTRON<sup>®</sup>

## introduction

### **CENTRON<sup>®</sup> C1S Transformer-Rated Meter**

The CENTRON transformer-rated solid-state meter is used for measuring single-phase 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**

- > 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**

- > Glass cover
- > Electronic detent
- > Identification/accounting aids



# features

## Option Availability

- > Glass cover
- > Electronic detent
- > Identification/accounting aids

## 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 with Glass	Catalog with Poly
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	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	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

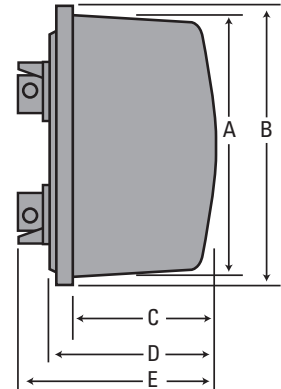
## Dimensions

### 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



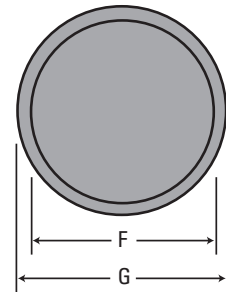
## Shipping Weights

### Polycarbonate

4 meter cartons	Approx. 8.9 lbs.	4.04 kg
120 meter pallets	Approx. 260-265 lbs.	117.936 kg

### Glass

4 meter cartons	Approx. 13.96 lbs.	6.35 kg
120 meter pallets	Approx. 335 lbs.	151.956 kg



## Specifications

<b>Power Requirements</b>	Voltage rating: 120 V, 240 V Frequency: 60 Hz	Operating voltage: $\pm 20\%$ Operating range: $\pm 3$ Hz
<b>Operating Environment</b>	Temperature: $-40^{\circ}$ to $+85^{\circ}\text{C}$ Humidity: 0% to 95% non-condensing	
<b>Transient/Surge Suppression</b>	ANSI C37.90.1-1989 IEC 61000-4-4 ANSI C62.45-1992	
<b>Accuracy</b>	ANSI C12.20 0.5 Accuracy Class	
<b>General LCD Display</b>	Five-digit liquid crystal display Data digit height: 0.4"	Annunciator height: 0.088" Electronic load indicator
<b>Characteristic Data</b>	Starting watts: 3S-1.2 watts; 4S-2.4 watts	
<b>Temperature Rise Specifications</b>	Meets ANSI C12.1 section 4.7.2.9	
<b>Burden Data</b>	Voltage circuit: Voltage: 120                      Watts: 0.65      VA: 5.4 Voltage: 240                      Watts: 0.65      VA: 10.2	
	Current coil-self contained test amp current: 60 Hz Service: 3-Wire                      Test current (amps): 30                      VA: <0.50	

## profile

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