



# CENTRON® II

## CENTRON C2SXD Meter

### INTRODUCTION

Itron introduces the CENTRON II C2SXD new singlephase meter with Hall Sensor technology in a low profile, compact package that allows utilities the capability to connect, and disconnect service without a visit from a field worker.

This ANSI C12.20 compliant residential solid-state meter with remarkable accuracy of 0.3 percent is network ready for snap-in interchangeable communications modules that fit easily into the standard CENTRON metrology base.

The switch metrology is rated for 30,000 mechanical cycles, and 5,000 cycles under full load. The switch can be configured to limit

load used below 200 amps. The service switch feature available in this new meter for residential markets is designed for two-way communications. Mass deployments provide functionality that helps utilities to lower field service costs, improve credit management, and enable prepaid metering.

From low-end kWh measurement to smart metering applications, the CENTRON II meter platform includes informative developer kits that outline standard processes and easy-to-use interfaces to support rapid OEM development. Itron works closely with a variety of strategic partners to provide additional communications options for rapid integration into CENTRON meters (C2SX/C2SXD).

## FEATURES

### Standard Features

- » Electronic LCD display
- » Polycarbonate cover
- » Optical tower
- » Customer Interface Button

### Advanced Features

- » Up to 480V overvoltage protection
- » Less susceptibility to harmonics and high frequency noise
- » Improved temperature capability
- » Optional remote service switch integrated into the base of the meter in a low profile, compact package
- » ANSI C12.22 compatible Blurt broadcast message eliminates the need for display and communication modules to do register functions. The Blurt broadcast will send energy, voltage, temperature, and status values over the board to board connector

### Option Availability

- » 200A remote service switch

### Integrated Service Switch

- » Meets ANSI C12.20 specifications Switch Ratings are 200 amps (Form 1S included)
- » Rated for 30,000 mechanical cycles under no load
- » Rated for 5000 mechanical cycles under full load
- » Meter remains energized and records “zero consumption”
- » Monitors load side voltage
- » Load Limiting capability
- » Manual arming button on meter cover
- » Capability to reconnect by utility or customer interaction

### Voltage Measurement

- » On board voltage measurement allows for end of line voltage monitoring and residential voltage profiling for troubleshooting and diagnostics

### Temperature Measurement

- » Temperature monitoring for local device temperature status and profiling capability

### Disconnect/Reconnect with Load Limiting

- » The C2SXD forms 1S, 2S, and 12S are available with a 200 amp remote disconnect/reconnect switch

### Technical Data

Meets applicable standards:

- » ANSI C12.1 - 2008
- » ANSI C12.20 (Class 0.5) - 2010
- » ANSI C12.18 - 2006
- » ANSI C12.19 - 2008
- » ANSI C12.21
- » FCC CRF Title 47 Part 15.247 Subclass C
- » Industry Canada RSS-210

### Reference Information

- » CENTRON II Technical Reference Guide
- » Electricity Price Bulletin
- » Hardware Specification Form
- » Information Developer Kits are available that outline standard processes and easy-to-use interfaces that are available for rapid OEM development

## SPECIFICATIONS

### C2SX Product Availability

Volts / Service	Meter Class	Meter Form
120	200	1S
240	200	2S
240	320	2S
120	20	3S
240	20	3S
240	20	4S
120	200	12/25S

### C2SXD + switch Product Availability

Volts / Service	Meter Class	Meter Form
120	200	1S
240	200	2S
120	200	12/25S

### Measurement Quantities

Energy Data	Demand Data	Instantaneous Data
Wh (delivered, received, net, unidirectional) Vah (delivered, received)	Max W (delivered, received) Max VA (delivered, received)	Instantaneous Volts Instantaneous VA Instantaneous Watts

### Power Requirements

Voltage rating	Operating voltage	Frequency	Operating range	Operating Environment Temperature	Humidity
120-240 V	±20% (60Hz) ±10% (50Hz)	60 Hz, (50 Hz)	±3 Hz	-40° to +85°C	0% to 95% non condensing 20ma (CL200); 5ma (CL20)

### Starting Current Burden Data

Voltage	Watts	VA
1S, CL200, 120V	2.675	9.494
2S, CL200, 240V	1.92	11.5



Itron is a global technology company. We build solutions that help utilities measure, manage and analyze energy and water. Our broad product portfolio includes electricity, gas, water and thermal energy measurement and control technology; communications systems; software; and professional services. With thousands of employees supporting nearly 8,000 utilities in more than 100 countries, Itron empowers utilities to responsibly and efficiently manage energy and water resources.

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