



CENTRON[®]

Polyphase (V&I)

CP3SD, CP3ST, CP3SL

With this solid-state meter, Itron presents a platform for commercial and industrial (C&I) metering that has the flexibility to adapt as the needs of utilities and their C&I customers expand and change. This polyphase solid-state meter is available with interchangeable personality modules that snap into the standard CENTRON Polyphase current transformer (CT) metrology base. The three multifunction modules available include a demand module (CP3SD), a time-of-use (TOU) module with demand (CP3ST), and a load profile module with TOU and demand (CP3SL).

Non-Volatile Memory

All programming, register, TOU, and load profile data is stored in the non-volatile memory during a power outage. A battery maintains only the clock circuitry during a power outage (except CP3SD).

Optical Port Communication

Each module can communicate from 9600 up to 28800 baud through the optical port.

Self-Read Capability

- » Billing data can be stored automatically at programmable times to be read later.
- » All meters are equipped with two snap-shot registers.
- » The CP3SD (with clock), CP3ST and CP3SL modules can be programmed to automatically store up to 12 additional self-read registers.

Load Profile

The CP3SL module provides 144K RAM for up to eight channels of load profile data.

Bi-Directional Metering

All three multifunction modules are capable of measuring and displaying delivered, received, net and unidirectional kWh energy.

Expansion Capability

An expansion port is available for future Input/Output (I/O) or communication functions.

Advanced Measurement

Multifunctional modules can be purchased with active and reactive measurements.

FEATURES

- » Electronic LCD display
- » Polycarbonate cover
- » Demand reset
- » Optical port
- » Test Mode push button
- » Test LED

Option Availability

- » 2KYZ, 1KY board
- » R400CD/CD3
- » Identification/Accounting aids

Technical Data

Meets applicable standards:

- » ANSI C12.1 – 2008
- » ANSI C12.10 – 2004
- » ANSI C12.20 (Class 0.5) – 2010
- » ANSI C12.1 – 2008
- » ANSI C12.18 – 2006
- » ANSI C12.19 – 2008
- » IEC 61000-4-4
- » IEC 61000-4-2
- » FCC Part 15 Class B
- » FCC Part 15, Subpart C

Reference Information

- » CENTRON Polyphase Technical Reference Guide
- » CENTRON Polyphase CP3S Specification Sheet
- » CENTRON Polyphase CP3SR Specification Sheet
- » CENTRON R400CD/CD3 Specification Sheet
- » Hardware Specification Form
- » Metering Pocket Guide

SPECIFICATIONS

Shipping Weights

Polycarbonate	Pounds	Kilograms
	(approx)	
4 Meter Cartons	12 lbs	5.44 kg
96 Meter Pallets	323 lbs	146.51 kg

Product Availability

Volts / Service	Class	Form No.
120-480V 2-wire, 1 element	100	1S
120-480V 3-wire, 1.5 element	200	2S
120-480V 3-wire, 1.5 element	320	2S
120-480V 2-wire, 1 element	20	3S
120-480V 3-wire, 1.5 element	20	4S
120-480V 4-wire, 3 element	20	9S (8S)
120-480V 4-wire, 3 element	20	9S (8S)/36S
120-480V 3-wire, 2 element	200	12S
120-480V 3-wire, 2 element	320	12S
120-480V 4-wire, 3 element	200	16S
120-480V 4-wire, 3 element	320	16S
120-480V 3-wire, 2 element	20	45S

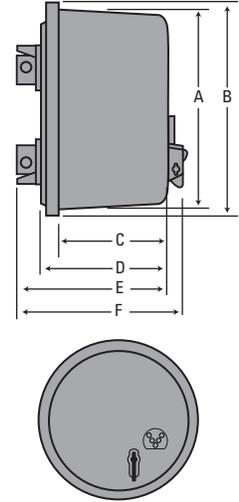
Dimensions

Polycarbonate					
A	B	C	D	E	F
6.31"	6.95"	5.04"	5.85"	6.86"	7.30"
16 cm	17.7 cm	12.8 cm	14.9 cm	17.4 cm	18.5 cm

Specifications

Power Requirements	Voltage rating:	120 V-480 V
	Operating voltage:	±20% (60 Hz); ±10% (50 Hz)
	Frequency:	60 Hz, 50 Hz
	Operating range:	±3 Hz
	Battery voltage:	3.6 V nominal
	Battery operating range:	3.4 - 3.8 V
Operating Environment	Temperature:	-40° to +85°C
	Humidity:	0% to 95% non-condensing
Transient / Surge Suppression	IEC 61000-4-4 ANSI C62.45-1992	
Accuracy	ANSI C12.20 0.2 accuracy class	
General	Demand interval lengths:	Programmable from 1 to 60 minutes
	Demand calculation:	Present, previous, cumulative, continuous, cumulative, projected, five highest, peak demand
	Time:	
	Line sync:	Power line frequency
	Crystal sync:	±0.03% @ 25° C; ±0.02% over full temperature range
	Display:	Nine-digit liquid crystal display, display duration: 1-15 seconds, three-segment electronic load indicator

Dimensions





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