

R300CD/CD3 CENTRON®

introduction

CENTRON® R300CD/CD3

As an option, the C12.19 D/T/L register can be ordered with R300CD/CD3 functionality. The R300CD/CD3 continuously transmits Standard Consumption Messages (SCM) and Interval Data Messages (IDM) using radio frequency in the unlicensed frequency band which can be read by handheld, drive-by and fixed network meter data collection systems.

The R300CD/CD3 has two RF options:

- > R300CD: 2 ERT register without IDM
 - SCM ERT Type: 04
- > R300CD3: 3 ERT register with IDM
 - SCM ERT Type: 08
 - IDM ERT Type: 24

features

RF Transmission

- > The transmission frequencies, the frequency hopping pattern and the time interval between transmission cycles are random in nature; thus providing a method for avoiding interference with transmission from other devices

Programmable Configuration

- > R300CD/CD3 transmission options can be programmed using PC-PRO+® Advanced meter programming software. Transmission options include: quantity to be transmitted, type of registers to be transmitted, number of digits to be transmitted, number of decimal place digits for the data, and date format
- > PC-PRO+ Advanced is also used to enable Time of Use (TOU) and to select the TOU rate to be transmitted.

Standard Features

- > Electronic LCD register
- > Polycarbonate cover
- > Tamper detection

Reference Information

- > CENTRON Technical Reference Guide
- > CENTRON C1SC Specification Sheet
- > CENTRON C12.19 C1SD, T, L Specification Sheet
- > CENTRON Hardware Specification Form
- > CENTRON R300CD/CD3 Quick Install Guide
- > Meter Pocket Guide
- > CENTRON Polyphase CP1SR Specification Sheet
- > CENTRON Polyphase Technical Reference Guide
- > CENTRON Polyphase (V&I) CP1SD, CP1ST, CP1SL Specification Sheet
- > CENTRON Polyphase Hardware Specification Form
- > CENTRON Polyphase Overview Brochure



features

Tamper Detection

- > Each SCM message contains the following tamper information:

SCM #	Indicator #	Group
1	1	Meter Inversion
1	2	Meter Removal
2	1	Demand Reset (Push Button)
2	2	Low Battery or End of Billing Schedule (one year from end of warning)
3	1	Billing Events

- > Tamper, event and alarm indicator behavior: Two bits are used to log the above alarm, event and tamper occurrence groups.
- > All indicators are "non-latching" which means the R300CD/CD3 board continues to increment for each and every alarm, event or tamper occurrence each time they happen.
- > Event, alarm and tamper assignments:
 - For all fatal errors, the R300CD/CD3 module stops transmitting.
 - For non-fatal errors, transmission can be controlled via PC-PRO+ Advanced software.

polyphase specifications

Dimensions

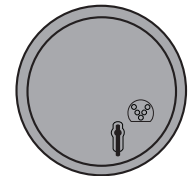
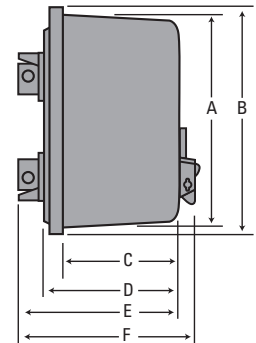
A	B	C	D	E
6.29"	6.95"	3.84"	4.30"	5.67"
16 cm	17.7 cm	9.75 cm	10.9 cm	14.4 cm

Shipping Weights

4 Meter Cartons	Approx. 12 lbs.	5.44 kg
96 Meter Pallets	Approx. 323 lbs.	146.51 kg

Specifications

Power Requirements	Voltage Rating: 120 V-480 V Frequency: 60 Hz	Operating Voltage: $\pm 20\%$ Operating Range: ± 3 Hz	
Operating Environment	Temperature: -40° to $+85^{\circ}\text{C}$ 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 LCD Display	Five-digit Liquid Crystal Display Data Digit Height: 0.4"	Annunciator Height: 0.088" Electronic Load Indicator	
Characteristic Data	Starting Current: 5 mA (Class 20) Starting Current: 20 mA (Class 200/320)		
Temperature Rise	Meets ANSI C12.1 Section 4.7.2.		
Specifications Burden Data	Voltage 120 Voltage 240 Voltage 277 Voltage 480	Watts: 0.773 Watts: 1.03 Watts: 1.38 Watts: 1.84	VA 1.38 VA 1.91 VA 2.13 VA 3.38



Polyphase R300CD/CD3

single-phase specifications

Dimensions

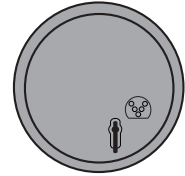
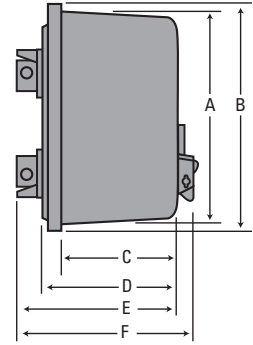
A	B	C	D	E	F
6.29"	6.95"	2.7"	3.16"	4.53"	4.98"
16 cm	17.7 cm	6.9 cm	8 cm	11.5 cm	12.7 cm

Shipping Weights

4 Meter Cartons	Approx. 10 lbs.	4.54 kg
96 Meter Pallets	Approx. 240 lbs.	108.86 kg

Specifications

Power Requirements	Voltage Rating: 120 V, 240 V Frequency: 60 Hz	Operating Voltage: $\pm 20\%$ Operating Range: ± 3 Hz
Transmitter Frequency	910-920 MHz Frequency Hopping	
Operating Environment	Temperature: -40° to $+85^{\circ}\text{C}$ Humidity: 0% to 95% non-condensing	
Transient/Surge Suppression	IEC 61000-4-4 ANSI C62.45-1992	
Accuracy	ANSI C12.20 0.5 Accuracy Class	
General LCD Display	Nine-digit Liquid Crystal Display Six-digit Height: 0.44" Three-digit Code Number Height: 0.30"	Annunciator Height: 0.08" Four-segment Load Indicator Display Duration: 1-15 seconds
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: 2.48 VA: 14.23
	Voltage: 240	Watts: 1.45 VA: 25.60



Single-phase R300CD/CD3

product availability

Product Availability - Polyphase

Volts	Wire	Class	Form	CP1SDR2	CP1SDR3	CP1STR3
120-480	4-wire, 3 element	20	9S	G980058	G980648	G980646
120-480	3-wire, 2 element	200	12S	G980962	G981007	G980936
120-480	3-wire, 2 element	320	12S	G981011	G981006	G981005
120-480	4-wire, 3 element	200	16S	G980652	G980650	G980649
120-480	4-wire, 3 element	320	16S	G980755	G980774	G980776
120-480	4-wire, 3 element	20	9S/36S	G981010	G981009	G981008
120-480	3-wire, 2 element	20	45S	G980955	G980958	G980935

Product Availability - Single-phase

Volts	Wire	Class	KH (Pulse/WH)	Form Number	C1SRD2	C1SRD3	C1STR3
120	2	100	1.0	1S	G980364	G980707	G980706
240	3	200	1.0	2S	G980365	G980710	G980709
240	3	320	1.0	2S	G980366	G980713	G980712
120	3	20	1.0	3S	G980372	G980719	G980718
240	3	20	1.0	3S	G980368	G980722	G980721
240	3	20	1.0	4S	G980173	G980725	G980724
120	3	200	1.0	12S	G980369	G980728	G980727
120	3	200	1.0	25S	G980370	G980731	G980730

profile

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Itron is a leading technology provider and critical source of knowledge to the global energy and water industries. Itron operates in two divisions; as Itron in North America and as Actaris outside of North America. Our combined company is the world's leading provider of metering, data collection and software solutions, with nearly 8,000 utilities worldwide relying on our technology to optimize the delivery and use of energy and water. Itron delivers industry leading solutions for electricity, gas and water meters; data collection and communication systems, including automated meter reading (AMR) and advanced metering infrastructure (AMI); meter data management and utility software applications; as well as comprehensive project management, installation, and consulting services.

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