



R300 IDM CENTRON®

The Radio Frequency Personality Module allows meter data to be collected automatically, helping to save time, improve reliability, increase accuracy and ensure data security.

The R300 IDM is a Radio Frequency (RF) Personality Module based on the CENTRON solid-state metering platform. Kilowatt-hours and tamper data are reported through RF transmissions. The R300 IDM module provides both baseline and advanced data collection functionality, including interval data recording and enhanced tamper reporting capability. The R300 IDM delivers the ERT Standard Consumption Message (SCM) to any of Itron's radio-based data collection technologies, including handheld computers (OMR), a vehicle based mobile AMR unit such as the Mobile Collection System and Mobile Field Collector, or a network data collection solution such as the Itron Fixed Network or Micro Network. In addition, the R300 IDM is capable of

delivering the Interval Data Message (IDM) to the Itron Fixed Network AMR system to calculate ANSI standard demand, time-of-use and load profiling information.

The meter can be reset by using the ZRO-C2A which resets both the kWh register and tamper status counters.

Itron provides all applications, related hardware and complete support to automate and ensure maximum efficiency in the installation process for utilities. Itron also provides easy-to-use file interfaces to support the upload and download of information to and from utility billing systems.

Standard Features

- » Electronic LCD display
- » Polycarbonate cover
- » Test LED Option Availability
- » Glass cover
- » Identification/Accounting aids
- » Undetented energy setting
- » Detented energy setting
- » Net energy setting

Radio Frequency Personality Module

- » Fully factory programmed
- » Transmit frequency; spread spectrum 910-920 Mhz

Energy RF Transmission

- » Each RF transmission contains the unit ID number, unit type, energy usage, and tamper status, as well as the Cycli Redundancy Check (CRC) to ensure message integrity.

Tamper Detection

The Itron patented method of tamper detection identifies:

- » Power removal tamper
- » Meter inversion tamper
- » Reverse disk rotation
- » Power outage count

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
- » EC 61000-4-2
- » FCC Part 15, Subclass C

Reference Information

- » CENTRON Technical Reference Guide
- » CENTRON C1S Specification Sheet
- » CENTRON C1SC Specification Sheet
- » CENTRON C1SD, T, L Specification Sheet
- » ZRO-C2A Handheld Resetter Operating Instructions

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	100	15	1.0	1S	LCD	5 x 1	G980485	G980486
120V 2-wire	100	15	1.0	1S	LCD	4 x 10	G980499	G980500
240V 3-wire	200	30	1.0	2S	LCD	5 x 1	G980513	G980476
240V 3-wire	200	30	1.0	2S	LCD	4 x 10	G980514	G980477
240V 3-wire	320	50	1.0	2S	LCD	5 x 1	G980487	G980488
240V 3-wire	320	50	1.0	2S	LCD	4 x 10	G980501	G980502
120V 2-wire	20	2.5	1.0	3S	LCD	5 x 1	G980489	G980490
120V 2-wire	20	2.5	1.0	3S	LCD	4 x 10	G980503	G980504
120V 3-wire	200	2.5	1.0	12S	LCD	5 x 1	G980495	G980496
240V 2-wire	20	2.5	1.0	3S	LCD	5 x 1	G980491	G980492
240V 2-wire	20	2.5	1.0	3S	LCD	4 x 10	G980505	G980506
240V 3-wire	20	2.5	1.0	4S	LCD	5 x 1	G980493	G980494
240V 3-wire	20	2.5	1.0	4S	LCD	4 x 10	G980507	G980508

Refer to the CENTRON Technical Reference Guide for the catalog numbers and burden data for the FM 1S CL100, FM2S CL320, FM 3S CL20, FM 4S CL20, FM 12S CL200 and FM 25S CL 200 meters. All catalog numbers specify undetented energy setting with 7/1 segment check. Please refer to the CENTRON specification number bulletin for additional configurations.

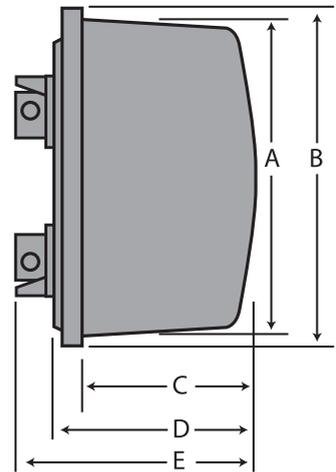
Dimensions

Polycarbonate

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

Glass

A	B	C	D	E	F	G
6.42"	6.95"	3.03"	3.55"	4.9"	6.42"	6.95"
16.3cm	17.7cm	7.7cm	9cm	12.5cm	16.3cm	17.7cm



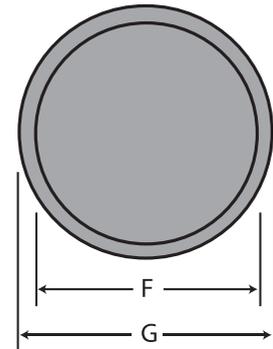
Shipping Weights

Polycarbonate

4 Meter Cartons	Approx. 8.9 lbs.	4.04 kg
96 Meter Pallets	Approx. 214 lbs.	97.30 kg

Glass

4 Meter Cartons	Approx. 13.96 lbs	6.35 kg
96 Meter Pallets	Approx. 335 lbs	152.30 kg



Specifications

Power Requirements	Voltage Rating: 240 V, 120 V Frequency: 60 Hz (50 Hz)	Operating Voltage: $\pm 20\%$ (60 Hz), $\pm 10\%$ (50 Hz) Operating range: ± 3 Hz
Transmitter Frequency	910-920 MHz Frequency Hopping	
Operating Environment	Temperature: -40° to $+85^{\circ}$ 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: 5 Watts	
Temperature Rise Specifications	Meets ANSI C12.1 Section 4.7.2.9	
Burden Data	Voltage Circuit: Voltage: 240 Watts: 1.79 VA: 7.45	
	Current Coil-Self Contained Test Amp Current: 60Hz Service: 3-wire Test Current (Amps): 30 VA: <0.50	



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.

Join us in creating a more resourceful world; start here: www.itron.com

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