![Itron logo]

Knowledge to Shape Your Future

R300 IDM
CENTRON®

introduction

CENTRON® R300 IDM

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 MicroNetwork. 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.

features

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

features

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 Cyclic 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
> Price Bulletin 110
> Hardware Specification Form
> 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
120V3-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, FM 2S 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.

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
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
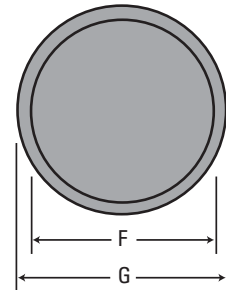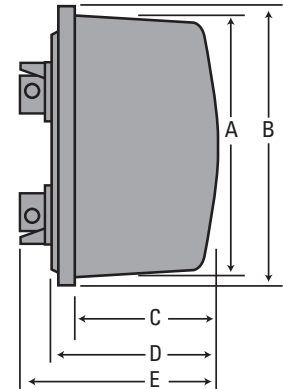
Specifications

Power Requirements	Voltage Rating: 240 V, 120 V Operating Voltage: ±20% (60 Hz), ±10% (50 Hz) Frequency: 60 Hz (50 Hz) Operating Range: ±3 Hz
Transmitter Frequency	910-920 MHz Frequency Hopping
Operating Environment	Temperature: -40° to +85°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: 60 Hz Service: 3-Wire Test Current (Amps:) 30 VA: <0.50

profile
Itron Inc.

Itron is a leading technology provider and critical source of knowledge to the global energy and water industries. Nearly 3,000 utilities worldwide rely on Itron technology to deliver the knowledge they require to optimize the delivery and use of energy and water. Itron delivers value to its clients by providing industry-leading solutions for electricity metering; meter data collection; energy information management; demand response; load forecasting, analysis and consulting services; distribution system design and optimization; web-based workforce automation; and enterprise and residential energy management.

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