

C1SR R300 CENTRON®

introduction

CENTRON® R300

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 High Power 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 High Power module provides both baseline and advanced data collection functionality, including interval data recording and enhanced tamper reporting capability. The R300 IDM High Power delivers the ERT standard consumption messages (SCM) to any of Itron's radio-based data collection technologies, including handheld computer, a vehicle-based mobile automated meter reading (AMR) unit such as the Mobile Collector, or a network data solution such as the Itron Fixed Network or MicroNetwork. In addition, the R300 IDM High Power is also capable of delivering interval data messages (IDM) to the Itron fixed Network AMR system to calculate ANSI standard demand, time-of-use (TOU), and load profiling information. The output level of the CENTRON R300 IDM High Power has been increased +20dBm above its predecessor, the R300 IDM. The higher-powered R300 is designed for particularly hard-to-read installations such as basements and below-grade locations, as well as gated communities, airports, and military installations. An additional benefit of the higher-powered R300 is a lower infrastructure cost; greater transmission distance equates to fewer repeaters and collectors.

The meter can be reset by using the ZRO-C2A device, 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. 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 register
- > Polycarbonate cover
- > Test LED

Option Availability

- > Glass cover
- > Identification/accounting aids
- > Detented, undetented and net energy measurement capability



features

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
- > Transmit frequency: spread spectrum 910-920 Mhz
- > Compatible with all Itron 900 MHz handheld, mobile and fixed network data collection solutions, including ChoiceConnect™, Itron's premier AMR data collection suite
- > Offers up to +20 dBm of output power

Tamper Detection

The Itron patented method of tamper detection identifies:

- > Power removal tamper (SCM/IDM)
- > Meter inversion tamper (SCM/IDM)
- > Reverse disk rotation (IDM)
- > Power outage count (IDM)

Technical Data

Meets applicable standards:

- > ANSI C12.1 - 2001
- > ANSI C12.10 - 2004
- > ANSI C12.20 (Class 0.5) -2002
- > ANSI C62.45 - 1992
- > IEC 61000-4-4
- > IEC 61000-4-2
- > FCC Part 15, Subclass C

Reference Information

Meets applicable standards:

- > CENTRON Technical Reference Guide
- > CENTRON C1S Specification Sheet
- > CENTRON C1SC Specification Sheet
- > CENTRON C12.19 C1SD, T, L Specification Sheet
- > Electricity Price Bulletin
- > Hardware Specification Form
- > ZRO-C2A Handheld Resetter Operating Instructions

Product Availability

Meter Version	Class	Volts	Wire	Form	Digits/ Mult	Energy Setting	Catalog Number
C1SR	100	120	2	1S	5x1	Undetented	G980678
C1SR	200	240	3	2S	5x1	Undetented	G980680
C1SR	320	240	3	2S	5x1	Undetented	G980682
C1SR	20	120	2	3S	5x1	Undetented	G980684
C1SR	20	240	2	3S	5x1	Undetented	G980686
C1SR	20	240	3	4S	5x1	Undetented	G980688
CN1SR	200	120	3	12S	5x1	Undetented	G980690

profile

Itron Inc.

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.

To know more, start here: www.itron.com



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