



R300S, R300SD and R300SD3

SENTINEL®

The R300S (energy only), R300SD (energy and demand), and R300SD3 (3 quantities) are option boards that allow energy and maximum demand values to be transmitted from the SENTINEL meter via radio frequency. They provide one, two or three transmission messages for the energy and demand readings, consisting of an ID number (ERT), the energy or demand readings, and the tamper status of the meter. The tamper status of the meter is changed when the meter is shaken in conjunction with the power being removed or restored.

FEATURES

Key Features

- » Broadcast energy only for demand meters
- » Broadcast any two or three quantities (energy and/or demand) for Clock Enabled meters
- » Mercury-free tamper detection
- » All components housed within the meter
- » Five optional input/output variations:
 - One Form C KYZ outputs and one Form A low-current, solid-state contact output
 - Two Form C KYZ outputs, one Form A low-current, solid-state contact output

- Two Form C KYZ outputs, one Form A low-current, solid-state contact output, and two Form A KY pulse inputs
- Four Form C KYZ outputs, one Form A low-current, solid-state contact output
- Four Form C KYZ outputs, one Form A low-current, solid-state contact output, and two Form A KY pulse inputs

Standard Features

- » Electronic LCD register
- » Polycarbonate cover
- » Test LED
- » Switchboard Ready Configuration

Product Availability

- » Socket-base configuration
- » A-base configuration

Reference Information

- » SENTINEL Meter Technical Reference Guide
- » SENTINEL Meter Overview Brochure
- » SENTINEL Meter Specification Sheet
- » Electricity Price Bulletin
- » Order Specification Form
- » Site Analysis Guide
- » Product Information Letters (PILs)

SPECIFICATIONS

Dimensions

Polycarbonate				
A	B	C	D	E
6.95"	6.37"	5.46"	6.00"	7.30"
17.65 cm	16.03 cm	13.87 cm	15.24 cm	18.54 cm

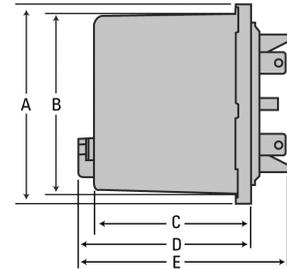
Specifications

Power Requirements	Voltage Rating: -20% to +10% of nominal voltage (1 or 3 phase)	Operating Voltage: ±20% Frequency: 50-60 Hz Operating Range: 45 to 65 Hz	
Load Profile/ TOU Battery	Voltage: 3.6 V nominal Operating Range: 3.4 V- 3.8 V	Carryover: 12 years minimum Shelf Life: 25 years minimum	
Time	Line Sync: Power line frequency Crystal Sync: ±0.003% @ 25°C; ±0.02% over full temperature range		
Operating Environment	Temperature: -40° to +85°C Humidity: 0% to 95% non-condensing		
Transient / Surge Suppression	ANSI C37.90.1-2002 FCC Part 15, Class B ANSI C62.41-1991		
Accuracy	ANSI C12.20: 2002 for class 0.2 meters		
Characteristic Data	Starting Current:		
	0.005 amps (Class 20)	0.050 amps (Class 200)	0.080 amps (Class 320)
Burden Data	Voltage	Watts	VA
	120	1.3	2.2
	240	1.6	3.1
	277	1.7	3.4
480	2.4	5.2	

Shipping Weights

Polycarbonate		
	Pounds	Kilograms
4 Meter Cartons	20.2 lbs	9.2 kg
1 Socket Base	7.5 lbs	3.4 kg

Dimensions



At Itron, we're dedicated to delivering end-to-end smart grid and smart distribution solutions to electric, gas and water utilities around the globe. Our company is the world's leading provider of smart metering, data collection and utility software systems, with over 8,000 utilities worldwide relying on our technology to optimize the delivery and use of energy and water.

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ITRON ELECTRIC METERING

313-B North Highway 11
West Union, SC 29696
USA

Phone: 1.877.487.6602
Fax: 1.864.638.4950

CORPORATE HEADQUARTERS

2111 N Molter Road
Liberty Lake, WA 99019
USA

Phone: 1.800.635.5461
Fax: 1.509.891.3355