



RS-232/RS-485

SENTINEL®

The optional SENTINEL RS-232/RS-485 board provides additional methods for data retrieval and programming. The RS-232 standard and/or the RS-485 standard allow point-to-point and multi-drop communication with up to two serial communication ports that can be configured through PC-PRO+® Advanced for either RS-232 or RS-485 communication with the same board. Utilities can program the option board as two RS-232 ports, two RS-485 ports, or one of each, allowing them to buy only one meter version, thereby maximizing flexibility for the utility and having a positive impact on inventory reduction.

FEATURES

Flexible Platform

- » Supports PSEM (ANSI Tables) and QDIP protocols
- » Simultaneous bidirectional communication through the optical port, both serial ports, and all inputs/outputs

Key Features

- » One or two serial communication ports added to the SENTINEL meter
- » Ports are configured for RS-232 or RS-485 through PC-PRO+ Advanced software
- » Allows other communication equipment to be connected to the SENTINEL meter
- » Each port is addressable

- » Meter supports simultaneous and independent optical port communications
- » Five input/output board options:
 - One Form C KYZ output and one Form A low-current, solid-state contact output
 - Two 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, and two Form A KY pulse inputs
 - Four Form C KYZ outputs and 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

Product Availability

- » Socket-base, A-base, or Switchboard base configurations Reference Information
- » SENTINEL Meter Technical

Reference Guide

- » SENTINEL Meter Overview Brochure
- » SENTINEL Meter Specification Sheet
- » Hardware Specification Form
- » Site Analysis Guide
- » Product Information Letters (PILs)

SPECIFICATIONS

Dimensions

Socket Meter				
A	B	C	D	E
6.95"	6.31"	5.46"	6.00"	7.30"
17.65 cm	16.03 cm	13.87 cm	15.24 cm	18.54 cm

A-Base Meter			
A	B	C	D
9.46"	7.28"	5.90"	6.44"
24.03 cm	18.48 cm	14.97 cm	16.35 cm

Shipping Weights

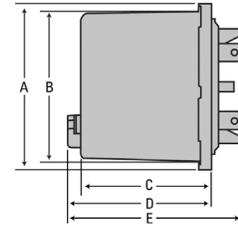
Socket Meter		
Net Weight (Meter & Carton)	Gross Weight (4 Pack)	Gross Weight
4 lbs. (1.8 kg)	7.5 lbs. (3.4 kg)	20.2 lbs. (9.2 kg)

A-Base Meter		
Net Weight (Meter & Carton)	Gross Weight (4 Pack)	Gross Weight
5.7 lbs. (2.6 kg)	9.3 lbs. (4.2 kg)	27.3 lbs. (12.4 kg)

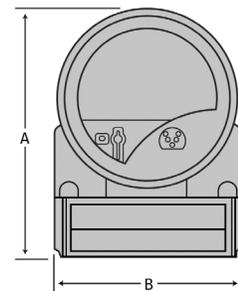
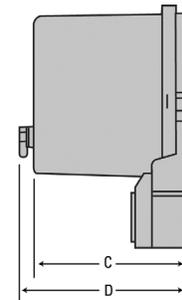
Specifications

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

Socket Meter Dimensions



A-Base 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.

To realize your smarter energy and water future, start here: www.itron.com

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