

Sensus Metering Systems

iCON™ Residential Meter with Integrated Sensus FlexNet® Display Board

With the FlexNet integrated display, our iCon residential meter is one of the most efficient and reliable AMI-ready electric meters available. The meter combines AMI communications and meter display on one board, making the meter much more reliable and efficient than AMR meters with expansion boards. Also, with the antenna now residing on the display board, signal strength and overall RF performance are enhanced.

FlexNet offers a simple, reliable, and flexible solution that is economical for mass meter deployments, strategic deployments, and rural applications.

Sensus iCon Meter Features

- Integrated FlexNet AMI on display board
- Improved efficiency and reliability
- Improved RF signals
- Accuracy exceeds ANSI C12.20 (Class 0.2)
- KWh energy measurement, voltage monitoring
- Net metering and simple demand
- Inversion proof
- Two-board design
- Open architecture



Advanced Sentec* Sensor Technology

- Designed for billing accuracy
- Reliable, integrated component construction
- Complete DC Immunity

*Includes technology licensed from Sentec, Ltd.

Flex Net

Integrated FlexNet Features/Options

- Programmable daily, hourly, 15- and 5-minute read intervals
- Instant demand reads
- Restoral notification, tamper, and theft detection
- Two-way and one-way communication options
- Data integrity: verified in every data message
- Outage and restoral correlation
- Remote connect/disconnect, load control
- Supports water and gas meters
- Only AMR system FCC approved to operate on unshared primary-use licensed spectrum

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iCON™ Residential Meter

Product Availability

Service	Class	Form	Voltage Rating (VAC)
2-wire	200	1S	120, 240
3-wire	200, 320	2S	240
3-wire	200	12S	120
3-wire	200	25S	120

Specifications

Power Requirements

- Voltage Rating: See Chart Above
- Frequency: 60 Hz

Accuracy

- Exceeds Accuracy Class 0.2

Burden

- Power Supply < 0.8 watts/7.9VA @ 240VAC
- Voltage Circuit per phase: 0.03 watts @ 240VAC
- Current circuit per phase 0.1 milliohms Typical @ 25°C

LCD Display

- Six-digit liquid crystal display
- Data digit height: 0.4
- Simulated mechanical disk emulation / 1 watt-hour increments
- Power flow indicator
- kWh display with segment check option

Operating Environment

- Temperature: -40° to +85°C
- Humidity: 0% to 95% non-condensing
- Transient / Surge Suppression: EN61000-4-4:1995 & EN61000-4-5:1995, exceed voltage and current surge requirements per Category 4

Complies with Industry Standards

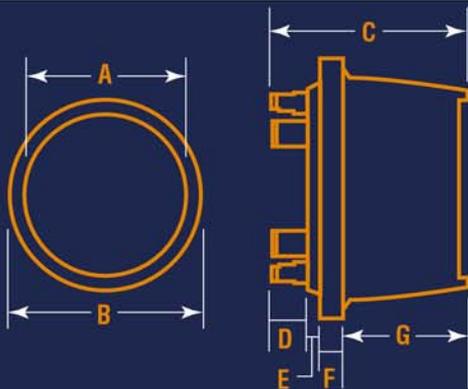
- ANSI C12.1 – 2001
- ANSI C12.10 – 1997
- ANSI C37.90.1 – 1989
- FCC Part 15

Characteristic Data

- Starting Watts: 5
- Temperature Rise Specifications: Meets ANSI C12.1 Section 4.7.2.9

Tamper Detection Options

- If the iCon meter is reversed in the socket, energy is added to the forward direction
- The iCon meter can place a tamper message in the display that can alternate with the kWh reading



Dimensions

	A	B	C	D	E	F	G
in	6.42	6.95	5.00	0.91	0.32	0.56	1.42
cm	16.31	17.65	12.70	2.31	0.81	1.42	8.13

Shipping Weight

4 Meter Cartons	8 lbs	3.6 kg
96 Meter Pallet	228 lbs	103 kg



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