

iConA™ (Gen 4) Electric Meter

The better way to measure, monitor and protect.

Description

The Sensus iConA Gen 4 residential meter has expanded measuring and monitoring capabilities that support real-time actionable information for you and your customers. With approximately 10 million electric meters across North America, utilities trust Sensus to deliver innovative capabilities in a durable, intelligent meter.

The iConA Gen 4 is designed to meet utility needs and customer demands while delivering returns on your investment for years to come. It's packed with better ways to measure, monitor and protect right out of the box, and you choose whether to enable them all now or as your needs grow.

The iConA Gen 4 is the meter designed for today — and ready for tomorrow.



Features

METROLOGY

- Wh, kVAh, kVARh energy measurements
- 256 bit encryption security
- C12.19 utility industry end device ANSI Tables
- Full net metering
- Primary metering
- Periodic self read
- Up to eight seasons of time-of-use in up to seven tiers of data
- Voltage measurement and configurable alarm reporting
- Electronic tamper detection
- High temperature detection
- Power outage and restoration notification
- Remote ZigBee, radio and metrology firmware download
- 1 Wh internal and display resolution

ADVANCED TECHNOLOGY

- Accuracy exceeds ANSI C12.20 (Class 0.2)
- Demand
- Critical Peak Pricing (CPP)
- Power quality events & alarms
- Optional remote service disconnect/reconnect
- Load limiting (current or demand)
- Time synchronized by FlexNet network
- Advanced event logging
- Optional HAN options
- Remote billing with demand reset
- Local radio interface for field visits
- Advanced meter tamper detection
- Complete DC immunity
- On demand meter readings and status reports
- Advanced meter tamper detection
- Revolutionary detection of moved meters

FEATURES AND BENEFITS

- FCC approved communication over unshared, primary use licensed spectrum
- Flexible two-way communication via FlexNet™ Communications Network
- AMI opt-out without network disruption
- Increased memory
- End to End IPv6 supported
- Improved billing with Enhanced Supervisory Message (ESM) technology providing up to four channels of ANSI C12.19 load profile and up to 15 snapshots
- Industry-leading temperature detection and protection technology
- Over-class amp detection and protection technology
- Over the air configuration

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Product Availability

Service	Class	Form	Voltage Rating (VAC)	ZigBee Option	Remote Disconnect Option
2 Wire	200	1S	120, 240	Yes	Yes
3 Wire	200	2S	240	Yes	Yes
2 Wire	20	3S	120,240	Yes	No
3 Wire	20	4S	120, 240	Yes	No
3 Wire	200	12S	120/208	Yes	Yes
3 Wire	200	25S	120/208	Yes	Yes

Specifications

Power Requirements

- Voltage Rating: See Chart
- Frequency: 60 Hz

Accuracy

- Exceeds Accuracy Class 0.2 (ANSI C12.20-2010)

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

Remote Disconnect

- iConA type iSA4 - Forms 1S-RD, 2S-RD, 12S-RD, 25S-RD
- 2-Pole, single-throw
- Magnetic latching
- Rating: 200 A, 240 VAC, 60Hz, PF 0.7/0.8 lagging
- Endurance: 5000 cycles, 200 A, 240 VAC, 60 Hz, PF 0.7/0.8 lagging and 25000 cycles at no load
- Overload: 50 OPS, 300 A, 240 VAC, 60 Hz, PF 1.0
- Current Withstand: Per IEC 1036, ANSI C12.1:7,000 A Peak (5,000 Amps rms) 240 VAC, 60 Hz, for 6 cycles at 0.7/0.8 PF with normal operation after exposure; 12,000 Amps rms for 4 cycles with fail safe conditions after exposure

Dimensions

- Diameter: 6.95 in (17.65 cm)
- Depth: 5.00 in (12.70 cm)

Complies with Industry Standards

- ANSI C12.20 - 2010 (Class 0.2)
- ANSI C12.1 - 2008
- ANSI C12.10 - 1997
- ANSI C37.90.1 - 2002
- FCC Part 15

Operating Environment

- Temperature: -40° to +85°C under the cover
- Humidity: 0% to 95% non-condensing
- Transient / Surge Suppression: IEC 61000-4-4 - 2012 and IEEE C62.41.2-2002, Category B

Characteristic Data

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

For more information, visit us at www.sensus.com

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