

# Stratus™

## A New Standard in Electricity Meters



### Features and Benefits

FCC approved communication over unshared, primary use licensed spectrum

Hardened design for improved safety

Industry-leading temperature detection and protection technology

Flexible two-way communication via FlexNet™ Communications Network

AMI opt-out without network disruption

Advanced billing capability

Over-class amp detection and protection technology

### Intelligence at the Edge

Sensus has developed the first residential electricity meter in the Stratus™ family of meters. The new Stratus meter will be available in form 2S Remote Disconnect and is UL 2735 listed.

The Stratus delivers intelligence at the edge technology providing electric utilities, municipalities and cooperatives with increased energy efficiency, enhanced safety standards, faster restoration of service and opt-in capabilities. Combined with the Sensus FlexNet™ communication network, Stratus is a quantum leap forward in smart city and smart grid enablement.

### Measurement

Wh, kVAh, kVARh energy measurements

Demand

Load Profile

256 bit encryption security

C12.19 utility industry end device ANSI Tables

Full net metering

Primary metering

Periodic self read

Best-in-class power outage and restoration notification

Up to eight seasons of Time-of-Use (TOU) in up to seven tiers of data

Voltage measurement and configurable alarm reporting

Remote ZigBee, radio and metrology firmware download

1 Wh internal and display resolution

### Advanced Technology

Accuracy exceeds ANSI C12.20 (Class 0.2)

Complies with ANSI and UL 2735

Critical Peak Pricing (CPP)

Power quality events & alarms

Load limiting (current or demand)

FlexNet™ enabled time accuracy

Advanced event logging

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

Revolutionary detection of moved meters

## Specifications

**Call your sales representative for more information.**

Form	<ul style="list-style-type: none"> <li>• 2S RD</li> </ul>
Power Requirements	<ul style="list-style-type: none"> <li>• Voltage Rating: See Chart</li> <li>• Frequency: 60 Hz</li> </ul>
Accuracy	<ul style="list-style-type: none"> <li>• Exceeds Accuracy Class 0.2 (ANSI C12.20-2010)</li> </ul>
Burden	<ul style="list-style-type: none"> <li>• Power Supply &lt; 0.8 watts/19VA @ 240VAC</li> <li>• Voltage Circuit per phase: 0.00576 watts @ 240VAC</li> <li>• Current Circuit per phase 0.2 milliohms Typical @ 25°C</li> </ul>
Remote Disconnect	<ul style="list-style-type: none"> <li>• Stratus type SSA4 ESM Device Type 83</li> <li>• Stratus type SSA3 ESM Device Type 50</li> <li>• Internal disconnect switch <ul style="list-style-type: none"> <li>• Rating: 200A, 240 VAC, 60Hz, PF 0.7/0.8 lagging</li> <li>• Endurance: 5000 cycles, 200A, 240 VAC, 60 Hz,</li> <li>• PF 0.7/0.8 lagging and 25000 cycles at no load</li> <li>• Overload: 50 OPS, 300A, 240 VAC, 60 Hz, PF 1.0</li> <li>• 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 cycles</li> </ul> </li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>• Diameter: 6.95 in (17.65 cm)</li> <li>• Depth: 5.00 in (12.70 cm)</li> </ul>
Complies with Industry Standards	<ul style="list-style-type: none"> <li>• UL 2735 listed</li> <li>• ANSI C12.20 - 2010 (Class 0.2)</li> <li>• ANSI C12.1 - 2008</li> <li>• ANSI C12.10 - 1997</li> <li>• ANSI C37.90.1 - 2002</li> <li>• FCC Part 15</li> <li>• Transient / Surge Suppression: IEC 61000-4-4 - 2012 and IEEE C62.41.2-2002, Category B</li> <li>• Temperature Rise Specifications: Meets ANSI C12.1 Section 4.7.2.9</li> </ul>
Operating Environment	<ul style="list-style-type: none"> <li>• Temperature: -40° to +85°C under the cover</li> <li>• Humidity: 0% to 95% non-condensing</li> </ul>
Characteristic Data	<ul style="list-style-type: none"> <li>• Starting Watts: 5</li> </ul>
Hardware Options	<ul style="list-style-type: none"> <li>• Optional ZigBee</li> </ul>

For more information, visit us at [www.sensus.com](http://www.sensus.com)

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