Stratus IQ™ Electricity Meter

Taking the Grid to Next-level Smart

Building upon the best-in-class Stratus® metering platform, the Stratus IQ combines grid edge intelligence with precise energy measurement into one powerful package. This meter was designed to provide utilities with the data visibility and control needed to quickly adapt to a rapidly evolving smart grid.

FEATURES

- Six energies and six demands
- Four quadrant metering
- Eight load profile channels
- Expanded LCD with multiple enunciators
- Tamper detection
- Persistent real-time clock maintains time for 24 hours following outage
- Optical port

BENEFITS

- C&I power in a residential meter
- Software defined metrology for future flexibility
- Flexible two-way communication via the FlexNet® Communication Network
- FCC approved communication over unshared, primary use licensed spectrum

Software-defined metrology

Hardware constraints for measuring energy is now a thing of the past. With the ability to make metrology adjustments over-the-air, utilities are prepared for whatever the future holds. Today, the Stratus IQ takes measurement to the next-level by gathering 8,000 samples per second for increased accuracy and flexibility.

C&I power in a residential meter

Four-quadrant metering is just the beginning. By simultaneously measuring real, apparent and reactive energy, the Stratus IQ gives utilities the competitive knowledge necessary to be more efficient in the generation and distribution of power.

Data is the name of the game

The Stratus IQ currently has eight channels of load profile data along with line-side and load-side voltage reporting. This insight gives utilities the concrete data needed to make educated decisions. No other meter on the market has this type of system visibility. In the future, the Stratus IQ will feature four data sets comprised of eight channels each for a total of 32 channels.

Details

- kWh, kVAh, kVARh energy measurements
- Demand and load profile with load limiting (current or demand)
- AES 256-bit encryption security
- C12.19 utility industry end device ANSI Tables
- Full net metering and primary metering
- 20-year Time-of-Use calendar
- Patented temperature detection
- Best-in-class power outage and restoration notification
- Voltage measurement and configurable alarm reporting
- Remote ZigBee, radio and metrology firmware download
- 1 Wh internal and display resolution

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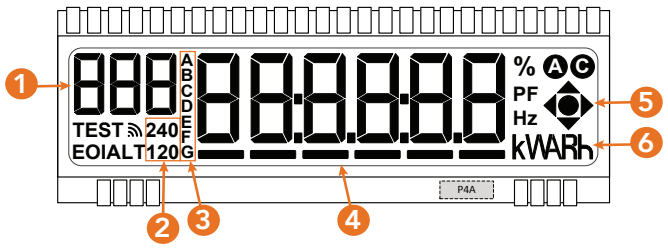
Stratus IQ™

Electricity Meter

LCD display

The data display is composed of LCD segments arranged to display letters and digits. Typically, the total kilowatt-hours are displayed in whole numbers; the resolution may be selected at the time of order. You can control the number of digits displayed, the justification of the digits within the display, and the location of the decimal point.



Key: 1 = source list number, 2 = voltage, 3 = TOU indicators, 4 = data display and disk simulator, 5= energy quadrant indicator, 6 = energy type

Specifications

Forms	1S, 2S, 3S, 4S, 12S, 25S, 1SRD, 2SRD, 12SRD, 25SRD, 2SCL320
Power Requirements	Voltage Rating: 120VAC and 240VAC Frequency: 60 Hz
Accuracy	Exceeds Accuracy Class 0.2 (ANSI C12.20-2015)
Burden	Power Supply 1.2W / 6.7VA @240VAC; 1.1W / 3.0VA @120VAC Current circuit per phase <0.01W
Device Type	FlexNet Device Type 96; Metrology Device Type 97, ZigBee Device Type 98
Model	Stratus IQ with FlexNet only: IDTB005, FCC ID: SDBIDTB005, IC: 2220A-IDTB005 Stratus IQ with FlexNet & Zigbee: IDTB006, FCC ID: SDBIDTB006, IC: 2220A-IDTB006
Remote Disconnect	Rating: 200A, 240 VAC, 60Hz, PF 0.75 lagging Endurance: Greater than 6000 cycles, 200A, 240 VAC, 60 Hz, PF 0.75 lagging Endurance: Greater than 30000 cycles at no load Overload: 50 OPS, 300A, 240 VAC, 60 Hz, PF 0.75 Current Withstand: Per ANSI C12.1: 7,000 A Peak (5,000 Amps rms) 240 VAC, 60 Hz, for 6 cycles with normal operation after exposure; 12,000 Amps rms for 4 cycles with fail safe conditions after exposure
Dimensions	6.95 in (17.65 cm) diameter; 5.06 in (12.86 cm) depth
Industry Standards	UL 2735 listed, ANSI C12.20 - 2015 (Class 0.2), ANSI C12.1 - 2014, ANSI C12.10 - 2011, ANSI C37.90.1 - 2002, FCC Part 15, Transient/Surge Suppression IEC 61000-4-4 - 2012 and IEEE C62.41.2 - 20002, Category B, Temperature Rise Specifications meets ANSI C12.1 Section 4.7.2.9, ANSI C12.18-R2006 (R2016).
Operating Environment	Temperature -40° to +85° C under the cover Humidity 0% to 95% non-condensing
Characteristic Data	Starting Current: 20mA (for CL200); 9mA (for CL20)
Hardware Options	ZigBee, Remote disconnect

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