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Data Sheet
EDS-10012-05

Stratus IQ+™ Electricity Meter

Taking the Grid to Next-level Smart



Features

- EV detection
- Six energies and six demands
- By-phase energy reporting (12S/25S)
- Theft, tilt, and tamper detection
- Arc and loss of neutral detection
- Sag and swell logging
- Harmonics reporting (THD & TDD)
- Enhanced outage recording
- Persistent real-time clock maintains time for more than 24 hours following outage
- Optional optical port
- Cellular communications module available

Benefits

- Flexible two-way communication via the FlexNet® Communication Network
- FCC approved communication over unshared, primary use licensed spectrum

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

Application Support

Expand meter capability with edge applications capable of real-time processing and reporting.

Flexible Communications

The optional cellular communications module provides deployment flexibility, enabling utilities to operate over FlexNet, cellular, or hybrid FlexNet-cellular networks to optimize coverage, connectivity, and data delivery across their service territory.

Grid-Ready Metering with Four-Quadrant Measurement

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.

Grid Visibility for Better Decisions

The Stratus IQ+ supports up to 32 channels of load profile data in four data sets. This insight gives utilities the concrete information needed to make data-driven decisions. No other meter on the market provides this type of system visibility.

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 radio and metrology firmware download
- 1 Wh internal and display resolution
- Flexible cellular communications for long-term utility deployments strategies

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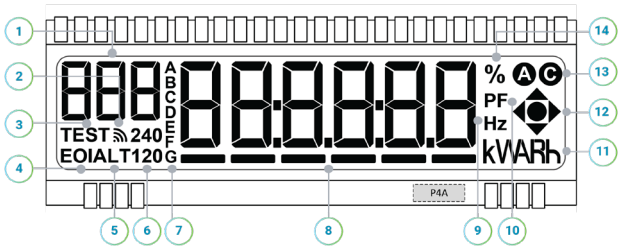
LCD Display

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. signal indicator
3. test mode
4. end of interval indicator
5. alternate display
6. voltage
7. time of use
8. data display & disk sim.
9. hertz indicator
10. power factor indicator
11. energy type
12. energy quadrant
13. voltage phase
14. percent indicator

Specifications

Forms	1S, 2S, 3S, 4S, 12S, 25S, 1SRD, 2SRD, 12SRD, 25SRD, 2SCL320
Power Requirements	Voltage Rating: 120VAC and 240VAC Frequency: 50 Hz or 60 Hz
Accuracy	Exceeds Accuracy Class 0.2 (ANSI C12.1-2026)
Burden	Power Supply 1.2W / 6.7VA @240VAC; 1.1W / 3.0VA @120VAC Current circuit per phase <0.01W
Device Type	FlexNet Device Type 121; Metrology Device Type 122
Model	Stratus IQ+ with FlexNet only: IDTB007 FCC ID: SDBIDTB007 ISED: 2220A-IDTB007 Measurement Canada: BSA5/BNA5
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. Meets or exceeds ANSI C12.30-2022
Dimensions	6.95 in (17.65 cm) diameter; 5.06 in (12.86 cm) depth
Industry Standards	UL 2735, ANSI C12.1 - 2022 (Class 0.2), ANSI C12.10 – 2011(R2021), ANSI C37.90.1 - 2002, FCC Part 15, ANSI C12.18-R2006 (R2016), ANSI C12.19-2021.
Operating Environment	Temperature -40° to +85° C under the cover Humidity 0% to 95% non-condensing Altitude up to 2000 meters
Characteristic Data	Starting Current: 50mA (for CL200); 50mA (for CL320); 9mA (for CL20) Current Withstand for Self-Contained Meters: 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. Current Withstand for Transformer Rated Meters: Per UL2735C minimum of 400 Amps rms for 0.5 seconds
Hardware Options	Remote disconnect, Cellular communications module

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