

The Revelo metering family is the industry's first IoT grid sensing electric meters benefiting both utilities and their customers. Demands on the grid edge are changing – today's energy consumers want more insight and control to manage energy better. Enhanced reliability, safety, and the growing adoption of distributed energy resources (DER) require more than traditional meter-to-cash capabilities. Revelo is a true grid sensor, providing unprecedented insight and control through industry-leading waveform data technology, offering superior edge computing capabilities and a greater ability to sample, process, store, and deliver data to the right places in real-time.

FEATURES

- High resolution current and voltage streaming to an integrated Edge Intelligence Card
- Gridstream[®] Connect App OS enabled sensor
- Available in 200 amp and 320 amp disconnect to facilitate growth in load due to electrical vehicle chargers, heat pumps, etc.
- Millisecond resolution network time to aid phase and grid anomaly detection
- Micro arc sensing for early detection of hot socket conditions

- Wi-Fi Certified and internet-enabled open application ecosystem with third-party and utility partner application creation potential
- Communications flexibility
- Enhanced power quality and richer harmonics measurement
- High-resolution billing system (ready for the future of transactive energy)
- Wi-SUN certified to enable the future of Wireless Smart Utility Network interoperability

Revelo® – The IoT Grid Sensing Meter

PRODUCT SPECIFICATIONS

| GENERAL | | | |
|------------------------|---|--|--|
| Metering Features | Standard Active and Reactive Metrics Time-of-Use with perpetual Calendar Load Profile 2 independent recorders 16 channels per recorder, 32 channels total Manager allocation between recorders Energy, demand, and PQ channel sources Tamper Detection Features Cover removal switch Magnet tamper sensor Meter removal and insertion detection Meter inversion detection Safety Related Features Multi-sensor temperature monitoring Micro-arc sensor Meter orientation change detection Form 2S virtual neutral for improved load-side voltage monitoring | | |
| SERVICE DISCONN | IECT SPECIFICATIONS | | |
| 200 Amp Disconnect | 10,000 operations at 200 Amps 5,000 open/close cycles (10,000 operations) Available Forms: 1S, 2S, 12S, 25S | | |
| 320 Amp Disconnect | 6,000 operations at 320 Amps 3,000 open/close cycles (6,000 operations) Available Forms: 2SE | | |
| PERFORMANCE SE | PECIFICATIONS | | |
| Accuracy Class | ANSI C12.1 Class 0.2% | | |
| Voltage Accuracy | +/- 0.2% typical | | |
| Frequency | Rated accuracy across 50Hz and 60 Hz +/- 5% | | |
| Starting Load (Watts) | Class 100: 20 mAClass 200: 40 mAClass 320: 65 mA | | |
| Operating Temperature | -40C to +85C under the cover | | |
| Humidity | Up to 95% relative humidity, non-condensing | | |
| Design Life | 20+ years | | |
| Over Voltage Withstand | Temporary (1/2 sec) 150% rated voltage Continuous (5 hours) 130% rated voltage | | |
| Voltage Burden | < 3.0 W max | | |
| Nominal Voltage | Form 2S-SD / 2SE-SD: 240 VAC (line-to-line) Form 1S-SD: 120V VAC (line-to-neutral) Form 12S-SD / 25S-SD: 120 VAC (line-to-neutral) | | |
| Operating Voltage | Nominal voltage +/- 20% | | |

| AVAILABLE FORMS | | | |
|-------------------------|---|--------------------|--------------|
| Self-contained (S-base) | 2S-SD, 2SE-SD, 1S-SD, 12S-SD, 25S-SD | | |
| COMMUNICATION | S | | |
| | Technology | Speeds | Output Power |
| Series 6 RF | IEEE 802.15.4- 2015 900 MHz FSK/OFDM | 50-2400 kbps | 500 mW Max |
| Wi-Fi Certified | Certification ID: WFA118337 | Up to 72.2 Mbps | 32mW Max |
| Optical Port | ANSI C12.18 | 9600–38400 bps | N/A |
| EDGE INTELLIGEN | CE | | |
| Operating System | Landis+Gyr Linux with App OS sandbox environment | | |
| Streaming Sensor Data | 14.6 kHz sampled voltage and current waveform data 100ms aggregate metrology and sensor data | | |
| SECURITY | | | |
| Encryption | 256-bit AES | | |
| Wi-Fi | WPA2 & WPA3 | | |
| Digital Image Signing | Signature validation for all firmware and application images | | |
| Physical Hardening | Port security and Data at Rest Encryption | | |
| APPLICABLE STAN | DARDS | | |
| ANSI C12.1 | Code For Electricity Metering | | |
| ANSI C12.10 | Physical Aspects Of Watthour Meters - Safety Standard | | |
| ANSI C12.18 | Protocol Specification for ANSI Type 2 Optical Port | | |
| ANSI C12.19 | Utility Industry End Device Data Tables | | |
| ANSI C12.20 | American National Standard for Electricity Meters— 0.1, 0.2, and 0.5 Accuracy Classes | | |
| UL 2735 | UL Standard for Safety Electric Utility Meters | | |

GET IN TOUCH.

For more information and nationwide warranty terms, visit us at landisgyr.com or call us at 888-390-5733.











LET'S BUILD A BRIGHTER FUTURE TOGETHER

Since 1896, Landis+Gyr has been a global leader of energy management solutions. We've provided more than 3,500 utility companies all over the world with the broadest portfolio of products and services in the industry. With a worldwide team of 1,300+ engineers and research professionals, as well as an ISO certification for quality and environmental processes, we are committed to improving energy efficiency, streamlining operations, and improving customer service for utility providers.