Bring modularity and flexibility to the world of remote data acquisition.

Data Logger 4G LTE

Simplicity

The Schneider Electric Data Logger 4G LTE is an ultra-low-power, fully-autonomous, wireless telemetry device that operates best-of-class sensors. The sampled sensor data is collected, transmitted securely, and then stored on Schneider Electric's cloud-server or a customer's on-premises server. Data Loggers are remotely configurable, and data can be visualized and managed via a private web-based IIot Platform. Data can also be integrated into SCADA and other software systems.

Benefits

- EcoStruxure™ Process Instrumentation's Data Logger 4G LTE offers simplified installation, integrated diagnostics, long battery lifetime, remote communication options, and low overall maintenance for remote location installations.
- Dominant IIoT solution in the infrastructure market for creating cybersecure, plug-and-play, affordable smart infrastructure networks.

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Experience the Benefits of the Data Logger 4G LTE

SCADA and software

From cloud-based hosting and an intuitive user interface to secured and streamlined SCADA connectivity, the Data Logger delivers data directly where it is needed. Integrating with models, analytics, and business intelligence solutions has never been easier.

Autonomous operation and redundant communication

Operates best-of-class sensors. Redundant communication concurrently supports LTE (4G), 3G, 2G, and Bluetooth connectivity.

Rugged design

Molded polycarbonate enclosure with IP 68/NEMA 6P waterproofing rating allows for installation in the most corrosive and aggressive of environments, in both industrial and commercial applications.

Cybersecurity and alerts

Data Loggers are embedded in every layer from the ground up with the most advanced cyber-security technology, including sensor authentication and data encryption. Receive alerts in case of an urgent event.

Reduced cost of ownership

Low-power and predictive analysis algorithms result in up to 30% extended battery life.

Rapid deployment and scalability

The Data Loggers are sensor-agnostic, utilizing various configurations of sensors and samplers. They are easily installed and operational within minutes.

EcoStruxure IIOT

To transfer all output data, the device is connected to the Schneider Electric Data Logger for a complete remote solution. The Schneider Electric Data Logger is an IIoT solution for creating cybersecure, plug-and-play, affordable smart infrastructure networks.

Applications

- Water abstraction
- Water production
- Water distribution
- Revenue metering
- Irrigation

Specifications

Data and software	
Data Hosting	Secure Cloud or On-Premises[1] (on premise to be offered in later release)
Cybersecurity	TLS 1.2 Protocol
Software Integration	REST API
SCADA Integration	CSV, DNP3[1], OPC-UA[1], FTP[1] (to be offered in later release)
Management Platform	Web-based from desktop, tablet, and mobile
Data Export Options	CSV (Reports)
Device Memory	8 GB
Data Communication	Two-way
Alarm Threshold	Up to 4 per data stream
Alert Notification	Email
System Health Check	Included

Power	
Primary Power Supply	Internal Lithium Battery (field-replaceable and non-rechargeable), 3.9 V DC 3A
Internal Battery Capacity	32 Ah
Operational Run Time	Up to 5+ years[2]
Battery Status Notifications	Included
External Power	Solar and line power; automatic power source switching
Voltage Input	6-24 VDC

Sensor integration	
Sensor Ports	3 ports; supports up to 12 sensors using cable splitters (not included, ordered as accessory)
Sensor Position	External Hardwired
Serial Interfaces	RS485, RS232, SDI-12
Serial Protocols	Modbus RTU, ASCII
Serial Channels	Up to 16
Analog Channels	Up to 4 (4-20 mA, 0-24 V)
Discrete Channels	Dry contact, open collector Up to 5 total inputs (up to 2 pulse counting) 39 Hz max pulse frequency Up to 5 outputs, 0 V/2.8 V Maximum 3 outputs to be used at the same time.
Sensor Power Supply Output	350 mA, 3.6 V/12 V

[1]Pricing to be determined on a case-by-case basis.

[2]Battery lifetime depends on sensor power consumption and sampling and transmission frequency.

Connectivity	
Communication	Cellular (4G/3G/2G)
Interfaces	Bluetooth
SIM Card(s)	Dual SIM slots
Cellular Roaming	Multi-network global SIM(s); data plan included supporting 180+ countries
Configuration	Remotely (over-the-air)
Upgrades	USB PC connection (internal)
Data Transmission	Periodic, data-dependent
Antenna	External antenna support with backup internal antenna
Built-In GPS	Included

Mechanical enclosure	
LED Indicator	Included
Dimensions (W x H x D)	13.2 cm x 16.5 cm x 7.3 cm / (5.2 in. x 6.5 in. x 2.9 in.)
Weight	0.9 kg (2.0 lbs.)
Enclosure Material	Polycarbonate (UL 94 V-0 and UV-resistant)
Ingress Protection	IP 68 / NEMA 6P
Operating Temperature	-40 °C to 80 °C (-40 °F to 176 °F)
Storage Temperature	-40 °C to 80 °C (-40 °F to 176 °F)

Approvals and certifications	
Safety	EN 61010-1 2010/IEC 61010-1
FCC	FCC Part 15 Subpart B, class B
EMC	EN 301 489-1 V2.1.1 2017/EN 301 489-7 V1.3.1 2005
Spurious Emissions	EN 301 511 V12.5.1 2017
Radiated Emissions	EN 301 908-1 V11.1.1 2016
IP68/NEMA6P	EN 60529:1992+A2:2013 IEC 60529:1989/AM1:1999
CE	Approved

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