DATA LOGGER - LT
Cost-Optimized Industrial IoT Edge Device

Compatible
Connect any sensor to any software system

Cost-effective
Save time and money with plug-and-play installation

Cybersecure
Encryption, authentication and remote updates

Comprehensive
Encompassing all required equipment and services

Delivering decisions from field assets data

Schneider Electric's Data Logger LT is a ruggedized, battery-powered, wireless Industrial Internet of Things (IIoT) edge device. Seamlessly combined with powerful software, the Data Logger LT offers continuous monitoring and situational awareness. Our end-to-end solution helps municipal and industrial operators increase efficiency, reduce downtime and failures, and improve compliance.

The Data Logger LT is designed for compatibility and interoperability to connect decision-makers with their critical assets. The device generates and securely transmits sensor data to a software platform, where it can be managed and integrated into third-party applications, such as SCADA, data analytics, and GIS.

Through the creation and management of data from field assets, Schneider Electric's solution transforms and adds intelligence to new and existing infrastructure networks alike.

Data & Software

Data hosting	Cloud or on-premises
Cyber-security	TLS 1.2 protocol (AES-256)
Software integration	REST API, CSV
SCADA integration	CSV, DNP3, OPC-UA
IoT software platform	Web-based from desktop, tablet, and mobile
EcoStruxure Mobile App	iOS, Android
Data export options	CSV, FTP
Device memory	Up to 250,000 samples
Data communication	Two-way authentication
Alarm threshold	Up to 4 per data stream
Alert notification	SMS, email, voice
System health check	Included

Connectivity

Cellular [2]	Available technologies: CAT-M, NB-IoT, 2G
	CAT-M
	4G, 3G, 2G
	4G, 3G
	3G, 2G
SIM card	Single SIM slot, Nano SIM
Cellular roaming	Global multi-network SIM; data plan included for up to 180+ countries
Configuration	Bluetooth Low Energy (BLE), remotely (over-the-air),
Data transmission	Periodic, data-dependent
Antenna	External antenna

Power

Primary power supply	Internal lithium battery (field-replaceable and non-rechargeable), 3.9 V DC 3A
Internal battery capacity	32Ah
Battery life	Up to 5+ years [1]
Battery life notifications	Included
External power	6-24VDC automatic power source switching

Mechanical Enclosure

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 94V-0 and UV-resistant)
Ingress protection	IP 68 / NEMA 6P
Operating temperature	-40° to +80°C (-40° to 176°F)
Storage temperature	-40° to +80°C (-40° to 176°F)

Sensors Input

Sensor ports	1 port; supports up to 4 sensors using cable splitters
Sensor connection	Wired with M12 connectors
Serial interfaces	RS485, RS232
Serial protocols	Modbus RTU, ASCII, custom
Serial channels	16
Analog channels	2 (4-20 mA, 0-24 V)
Digital input channels	2 dry contact, open drain Pulse counting at 39Hz max pulse frequency
Digital output channels	2 at 0V/2.8V
Sensor power supply	12V or 3.6V, 350mA

Certifications

Safety	EN 61010-1 2010
	IEC 61010-1
FCC	FCC Part 15 Subpart 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
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