DATA LOGGER - IS
Intrinsially Safe 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 IS is an intrinsically safe ruggedized, battery-powered, wireless Industrial Internet of Things (IIoT) edge device. Seamlessly combined with powerful software, the Data Logger IS 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 IS 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	8 GB
Data communication	Two-way authentication
Alarm threshold	Up to 4 per data stream
Alert notification	SMS, email, voice
System health check	Included

Power

Primary power supply	Internal lithium battery (field-replaceable and non-rechargeable), 3.9 V DC 3A
Internal battery capacity[1]	32Ah
Battery life	Up to 5+ years
Battery life notifications	Included
External power	6-12VDC automatic power source switching

Sensors Input

Sensor ports	3 ports; each accepts serial, analog, and digital inputs
Sensor connection	Wired with M12 connectors
Serial interfaces	RS485, RS232
Serial protocols	Modbus RTU, ASCII, custom
Serial channels	16
Analog channels	3 (4-20 mA, 0-24 V)
Digital input channels	3 dry contact, open drain Pulse counting: up to 2 at 39Hz max pulse frequency
Digital output channels	3 at 0V/2.8V
Sensor power supply	12V, 350mA

Connectivity

Cellular	4G/3G/2G
SIM card(s)	Dual SIM slots, 3FF
Cellular roaming	Global multi-network SIM(s); data plan included for up to 180+ countries
Configuration	Bluetooth Low Energy (BLE), remotely (over-the-air), USB connection
Data transmission	Periodic, data-dependent
Antenna	External antenna
Built-in GPS	Included

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	1.0 kg (2.2 lbs)
Enclosure material	Polycarbonate with ABS (UL 94V-0 and UV-resistant)
Ingress protection	IP 68 / NEMA 6P
Operating temperature	-40° to +68°C (-40° to 154°F)
Storage temperature	-40° to +80°C (-40° to 176°F)

Certifications

Ex approvals	Class I Division 1 Zone 0 ATEX Zone 0 IECEx
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 Approved

CE

Ex

Class I Div 1, Groups C & D
II 1G Ex ia IIB T4 Ga IP68
IECEx Certifcate No. IECEx ITL 18.0002X
Tamb = -40 +68°C