Life Is On | Schneider Electric

DATA LOGGER - PR

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 PR is a ruggedized, battery-powered, wireless Industrial Internet of Things (IIoT) edge device. Seamlessly combined with powerful software, the Data Logger PR 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 PR 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
Software integration	REST API
SCADA integration	CSV, DNP3, OPC-UA, FTP *
IoT software platform	Web-based from desktop, tablet, and mobile
EcoStruxure Mobile App	iOS, Android
Data export options	CSV (Reports)
Device memory	8 GB
Data communication	Two-way authentication
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	32Ah
Operational run time	Up to 5+ years [1]
Battery status notifications	Included
External power and voltage input	Solar and line power; automatic power source switching. 6-24 VDC

Sensors Input

Sensor ports	3 ports; supports up to 12 sensors using cable splitters [3]
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). 32 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	350 mA, 3.6 V/12 V.

Connectivity

Communication	Cellular (4G, 3G, 2G) [2]
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 (included)
Built-in GPS	Included

Mechanical Enclosure

LED Indicator	Included
Dimensions (W x H x D)	13.2 cm x 16.5 cm 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

* To be offered in later release

[1] Actual battery lifetime depends on sensor power consumption as well as sampling and transmission frequency.

[2] Contact Schneider Electric for specific details for your region

[3] Not included. Ordered as accessory

All statements concerning specifications and operating conditions of the Data Logger correspond to the best information available at the time of printing. Subject to change without prior notice.

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