

DS800 DataStream

Web Based Energy Data Logger

Synetica's DS800 DataStream is an internet connected device for the collection, storage and transmission of meter data for energy management and environmental monitoring.

Built in Ethernet connectivity provides high speed, real time access to device data via the Internet or corporate IT network. For remote sites, a GSM/GPRS option is also available.

The DS800 is the most versatile energy logger on the market and can accommodate any combination of multiple data inputs including:

- 8 pulse inputs for direct connection to energy meters.
- Wired & wireless Modbus RTU / Modbus IP meters & sensors.
- LoRa wireless meters and environmental sensors—via LoRa gateway.

Energy consumption is recorded at selectable intervals, typically ½ hourly. This data is stored on the DataStream and automatically sent to a central server, such as a Monitoring and Targeting package.



Applications



Commercial



Energy



Infrastructure



Pharma



Retail



Education

Key Features



Simple monitoring of energy usage in real-time



Records energy consumption at selectable intervals



Easy "Plug & Play" configuration & operation



Up to 128 logged data values*



Eight S0 class pulse meter inputs



LoRaWAN Wireless sensor networks



Converts LoRaWAN data to Modbus TCP/IP or SNMP format*

*Model dependent

DS800 Datastream – Web Based Energy Data Logger

The engineering team at Synetica have many years' experience in monitoring and analysing critical information for the facilities management, commercial and industrial sectors.

The DS800 DataStream is part of a range of asset and energy monitoring systems available from Synetica which includes water leak sensors, air velocity & differential pressure monitors and temperature probes.

The combination of the integrated systems allow building and facility managers to accurately and continuously measure a range of environmental factors providing valuable information for building and equipment efficiencies.

All our UK manufactured systems incorporate LoRaWAN long range wireless technology so that data can be easily transmitted for analysis. Battery powered versions offer rapid low-cost deployment with the freedom to position monitors for optimal sensing.

If you have a specific requirement for an air, environmental, energy or asset monitoring solution, contact us to learn more about how our precision monitoring technologies could help.

About us

Synetica was established in 2008 with the simple idea to revolutionise air quality monitoring, energy usage and remote asset monitoring. Our global customer base relies on our expertise to help them reduce emissions and clean up the air they breathe by allowing them to monitor their energy usage and key environmental parameters via the touch of a button.

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Features

8 x Pulse Inputs	8 Pulse inputs for energy meters or digital status monitoring (S0 class meter inputs).
Modbus RTU & IP Communications*	Links to Modbus enabled meters to retrieve, log and forward Modbus meter readings.
Flexible Communication Options*	Can provide data to host system via FTP, email, SNMP and Modbus TCP/IP for enhanced choice and flexibility.
LoRaWAN Wireless*	Optional link to LoRaWAN sensors via a LoRa gateway using MQTT data transfer. LoRa data can be converted to Modbus, TCP/IP register values or to SNMP variables. Built in alarm processing allows SNMP trap alerts to be created based on threshold values which can be set via SNMP.
Ethernet Interface	Built in high speed 10/100 Mbit ethernet links to the internet or corporate intranet.
GPRS/GSM	Optional GSM/GPRS communications for remote applications.
Security	User ID/password security with read only and read & configure access levels.
HTTP Web Server	Built in web server for simple device configuration and data presentation.
File System	Protected file system maintains logged data when powered down.
CSV Files	Logged data may be exported via email / FTP / Web browser as CSV file format for use in spreadsheets and aM&T systems.
Email Server	Built in SMTP to send logged data and configuration data via email.
File Transfer	Built in file transfer (FTP) to send logged data to a host computer at configurable intervals.
Time Synchronisation	Built in battery backed time clock with automatic synchronisation via the network (SNTP).
Remote Updates	Device may be updated remotely over the ethernet network to reduce maintenance costs.

**Model dependent*

