



Technical specifications

General

Processor: Vortex 86x@300 MHz
Flash memory: 128 MB..4 GB
Recovery key

Operation

Continuous or intermittent
Intermittent interval: 2 min..24 hours
Acquisition Interval: Continuous..24 hours
Processing interval: 5 sec..24 hours
Processing: scalar and vector mean, totalization, maximums and minimums, standard deviation, and on demand
Sleep mode*: 2 min..24 h

Inputs/Outputs

Serials*: 1..4
Ethernet: 10 Mbps
Analog inputs*: 4..160
Digital inputs*: 2..48
Analog outputs*: 2..160
Digital outputs*: 2..48

Power

Battery*: 12 VCC
Power grid: 220 VAC with buffer battery option

Environmental

Operating temperature: -20..70 degrees Celsius
Humidity: 0..100%
Security Grade: IP55 (IP65 on demand)

Weight and size: variable

Manufacturer: L&M, Italy

*Options

GreenLOG

GreenLOG is a modular acquisition, processing and data transfer system for use in research and industry. Developed as a LINUX-based platform it is extremely powerful and flexible.

Functional features

- Data acquisition from multiple sensors up to 100 Hz
- Up to 160 inputs and 48 outputs
- Ethernet interface
- 4 serial inputs and wide choice of analog inputs
- The only one with peripheral units

Key benefits

- Fast data acquisition for Eddy correlation
- Data synchronization option from multiple anemometers
- Acquisition network, even if very extensive, with single cable or radio

Quick data acquisition

The large memory capacity, up to 4 GB Flash, makes it possible to acquire signals of multiple sensors at high frequency (up to 100 Hz) even for long periods of time.

Interfaces

The availability of up to 4 serial interfaces, the use of a wide range of multiplexers and the large processing capacity allow to create even complex systems suitable for acquiring and processing many variables.

Peripheral units

In the case of systems with measurement points spread over large surfaces, GreenLOG, using peripheral acquisition units, drastically reduces or eliminates both the number of cables and the disturbances associated with transmission.

Peripheral acquisition units, located near the various sensors, acquire and convert the signal in serial format locally, thus avoiding the typical disturbances of analog signals, transferring it to the central unit of GreenLOG via the single cable BUS* up to 1200 m or by radio up to 7 km.

*The BUS cable carries both the power supply and the sensor signal.

Connectivity

GreenLOG provides high connectivity with the outside world by providing:

- HTTP server that provides an interactive user interface with any operating system (Windows, Linux, Mac)
- FTP client for transferring data files over the internet, automatically and at a programmable time, to a password-protected FTP location
- NTP client for clock synchronization over the internet

- SSH Server for Remote System Maintenance
- Ethernet or WIFI-enabled cable
- Remote management with any internet connection (PC, mobile,...)
- Option: GreenLOG can be equipped with a GSM/GPRS MODEM.

Data is stored in CSV format and can be imported into Excel.

To communicate with the GreenLOG system, simply launch a browser and type the address of the system.

User interface

The interface on the system allows the user to:

- Set network connection parameters
- Set system date and time
- Set acquisition and processing intervals
- Select, for each acquired parameter, the mode of operation
- Set acquisition start and end date and time

Below is the image of the first page.



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