

ES-SYS

data logging for environmental research & monitoring

overview

- Continuous, long-term environmental research and monitoring
- Suitable for land, marine, indoors or laboratory environments
- Option to download data over the internet
- Delivered pre-programmed, wired, and ready to go



Edaphic Scientific builds and customises scientific research and environmental monitoring systems for a range of applications. Our systems are either pre-configured or designed based your specific requirements. Our systems have the option to download data remotely over the internet, locally via WiFi or manually with a USB cable and laptop.

example applications

- Agriculture and horticulture
- Marine science and aquaculture
- Mine sites and landfills
- Hydrology and groundwater
- Rivers and streams
- Buildings and green roofs
- Greenhouse gases and fluxes

the grape monitor



In 2017, the New South Wales Department of Primary Industries commissioned Edaphic Scientific to install a phyto-monitoring system on various varieties of grapevines.

Known as The Grape Monitor, the phyto-systems are measuring stem growth (dendrometers), sap flow, soil moisture, canopy temperature, and more parameters.

Data is uploaded to the internet via the Edaphic Scientific telemetry system. These data can be viewed at anytime.

For more information, [visit The Grape Monitor](#).

advanced data collection and management solutions



Edaphic Scientific recognises the need for flexible and adaptable sensor and [data logging solutions](#) for experimental or environmental monitoring projects.

Data can be downloaded directly in the field from data loggers. A direct connection between the data loggers and your computer, via a USB cable, can be used for manual downloading of data.

Alternatively, data can be [downloaded over the internet](#) on your iPhone, iPad or desktop computer with the Eagle.io cloud-based, data management software solutions. Through this remote based downloading capabilities, you can download, view and manage your data, and system, anywhere in the world and at anytime.

ES-SYS-1



The ES-SYS-1 is a basic, entry level option that can measure a limited number of analog and digital sensors.

The ES-SYS-1 includes a basic data logger, weather proof enclosure, programming and wiring.

Data can be downloaded manual, with a USB cable and laptop, or remotely via the INTELIMAX modem and EAGLE.IO data management software platform.

features

- Analog sensors: 6 single ended or 3 differential
- Digital sensors: 20 SDI-12
- SF3 Sap Flow Sensors: 1 tree or 3 small stems
- SF-4/5 Sap Flow Sensors: up to 6
- In-built solar panel regulator
- WiFi and Ethernet available
- Modem available

ES-SYS-2



The ES-SYS-2 is a high quality, advanced option that can measure a moderate amount of analog and digital sensors.

The ES-SYS-2 includes an advanced data logger, weather proof enclosure, programming and wiring.

Data can be downloaded manual, with a USB cable and laptop, or remotely via the INTELIMAX modem and EAGLE.IO data management software platform.

features

- Analog sensors: 16 single ended or 8 differential
- Digital sensors: 240 SDI-12
- SF3 Sap Flow Sensors: 4 trees or 8 small stems
- SF-4/5 Sap Flow Sensors: up to 16
- External solar panel regulator required
- Ethernet available
- Modem available

ES-SYS-3



The ES-SYS-3 is a complete, high level option that can measure multiple analog and digital sensors. The ES-SYS-3 is ideal for large scientific research or environmental monitoring projects.

The ES-SYS-3 includes a data logger, multiplexer to expand the amount of sensors, weather proof enclosure, programming and wiring.

Data can be downloaded manual, with a USB cable and laptop, or remotely via the INTELIMAX modem and EAGLE.IO data management software platform.

features

- Analog sensors: 48 single ended or 24 differential
- Digital sensors: 240 SDI-12
- SF3 Sap Flow Sensors: 8 to 12 trees or 24 small stems
- SF-4/5 Sap Flow Sensors: up to 48
- External solar panel regulator required
- Ethernet available
- Modem available

related products

- [Eagle online data software platform](#)
- [LoRaWAN systems](#)
- [Data logger options](#)
- [Weather stations](#)
- [Plant sensors](#)
- [Soil sensors](#)
- [Water sensors](#)
- [Gas detectors](#)