



EOS1000

All-In-One Weather and Environmental Monitoring System

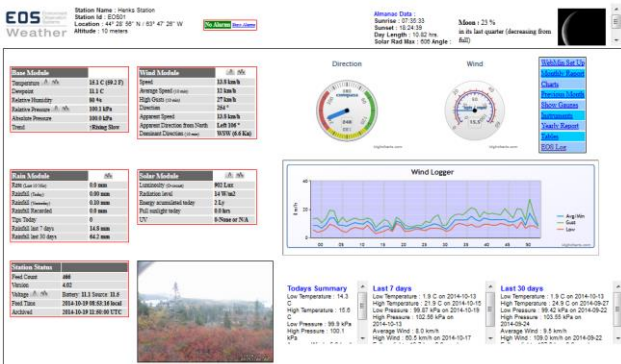
Delivering high accurate Environmental Data to your Database.

The EOS1000 is an all-in-one Weather Station, collecting Environmental data from multiple high precision sensors. With various optional devices, the EOS1000 can be utilized in many types of Industries; Agricultural, Marine, Energy Industry or just at home.

An on-board computer using a Linux Operating System with open Python scripting and an Apache Web Server manages core functions. MySQL data is pre-installed and can be managed with phpMyAdmin for easy access.

There is a web-based Webmin interface for Linux administration. The Webmin is also used for the EOS-1000 setup and is easier than ever to manage. No additional computer is required with this station; This is truly All-In-One.

The housing is made from the highest quality UV stabilized plastics, high class aluminum and stainless steel, is waterproof and even resistant to the harshest Marine Environment.



The EOS Software is simple and easy to use, yet the data is of the highest quality.

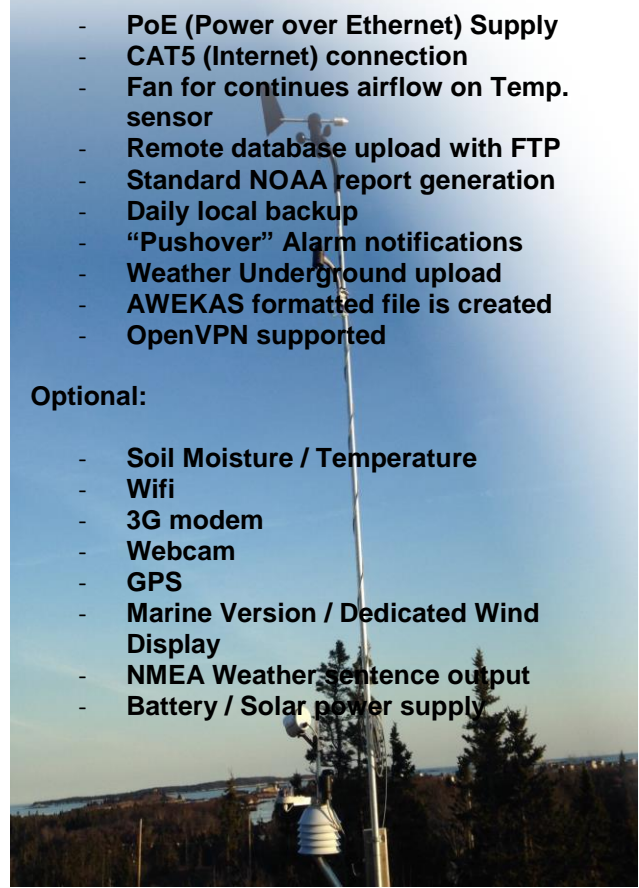
Features:

- Relative wind speed and direction
- Rel. and Abs. Barometric pressure
- Air Temperature
- Humidity
- Calculated Dew point, Windchill and Humidex (Heat Index)
- Rainfall / Rainrate
- Luminosity Radiation
- UV Radiation

- PoE (Power over Ethernet) Supply
- CAT5 (Internet) connection
- Fan for continuous airflow on Temp. sensor
- Remote database upload with FTP
- Standard NOAA report generation
- Daily local backup
- "Pushover" Alarm notifications
- Weather Underground upload
- AWEKAS formatted file is created
- OpenVPN supported

Optional:

- Soil Moisture / Temperature
- Wifi
- 3G modem
- Webcam
- GPS
- Marine Version / Dedicated Wind Display
- NMEA Weather sentence output
- Battery / Solar power supply

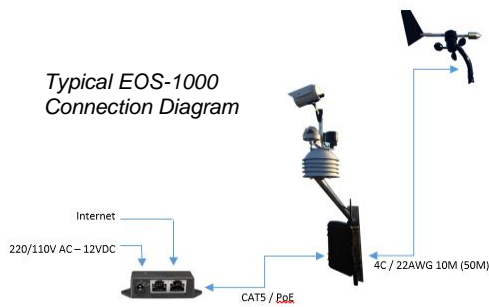


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Technical Specifications:

Wind		WU100
Range Wind Speed	0.5 - 160 km/h	(0 - 100 mph / 0 - 86 Kn)
Accuracy Windspeed	+/- 2 km/h	(+/- 1 mph / 1Kn)
Resolution Windspeed	0.1 km/h	
Wind Direction	0 - 360 Degrees	
Resolution Wind Direction	1 Degree	
Temperature and Pressure		TU50
Temperature Range:	-40°C to +125°C (-40°F to + 257°F)	
Temperature Accuracy:	+/- 0.25°C (0.45°F)	
Temperature Resolution:	0.1°C (0.18°F)	
Pressure Range:	750 – 1100 mBar (22.14 – 32.48 inHg)	
Pressure Accuracy:	+/- 0.5 mBar (0.014 inHg)	
Pressure Resolution:	0.1mBar (0.003 inHg)	
Humidity		HU25
Range:	0 to 100% Rel. Humidity	
Accuracy:	+/- 3%	
Resolution:	1% Humidity	
Rain		RU11
Accuracy:	+/- 15%	
Resolution:	0.001 mm "per tip"	
Light Luminosity		SU139
Range:	0 to 1200 W/m ²	
Accuracy:	+/- 10%	
Resolution:	3 W/m ²	
Spectral Range:	400 nm to 1100 nm	
UV		UV139
Range:	0 to 12 Index	
Accuracy:	+/- 5%	
Resolution:	1 Index	
Spectral Range:	280 nm to 360 nm (UV-A)	
General		
Dimension		
Weight	2 Kg	(4 Lbs)
Power requirement	220V -110 Vac (Passive) 12V PoE	
Backup	12V 7Ah Battery (3 hours)	
Interfacing		
Ethernet	Standard	
Wifi	Optional	
3G	Optional	
Iridium satellite	Optional (2015)	

Typical EOS-1000
Connection Diagram



EOS

Weather

Through multiple optional communications interfaces, it is now possible to get Environmental data no matter where the EOS1000 is located; Collect Environmental data from Agriculture Land, Highways, (re-usable) Energy sites or any other remote location far from the office. With Iridium Satellite it is even possible to collect Meteorological data as far as the middle of the Ocean or even the Poles (*).

Build-in sensors monitor multiple vital data of the EOS1000 station. Irregularities will be displayed on the webpage but can also be forwarded to an Iphone or Android app.

The EOS-Webmin page allows easy initial setup; Enter Weather Underground, Awegas, FTP site Login / password and the Station will start reporting to these remote Applications.

Optionally an Outdoor webcam can be added to visually observe the weather condition at your Station.

A Marine version is available providing ship Officers with a dedicated Wind Direction / Speed Display

(*) Available in 2015. Only limited data will be transferred.



EOS-1000 Weather data displayed on the Weather Underground Ipad app.

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