iMet-4000

Automatic Weather Station

Available Sensors

- Temperature
- Humidity
- Barometric Pressure
- Wind speed & direction
- Rainfall
- Pyranometer
- Soil moisture
- Air quality
- + other 3rd party sensors

iMet-4100 Data Logger

Model	iMet-4100
Data transfer	GSM, GPRS, SMS, serial
Communication protocol	FTP, HTTP, POP3, SMTP
Logging & reporting	User configurable
Battery charger	Built in
GPS position	Built in
Sensor Interface: *	
Analog ports	4 single ended
Pulse counters	2 x
Switched excitation channels	2 x
Digital sensor ports	2 x RS-422 ports
	2 x RS-232 ports
	1 x I2C ports
1-Wire ports	1 x 8 channel

* The number of sensor ports can be expanded by addition of a sensor expansion module.

System Overview

The iMet-4000 automatic weather station uses an open architecture to allow for easy integration with a large range of 3rd party sensors.

The AWS is of a very rugged design to allow for operation in extreme climate and weather conditions.

The low maintenance design makes long term unattended operations possible.

The logger configuration, as well as the firmware can be updated remotely via the GSM/GPRS modem interface without the need for a site visit.

Installation Options

The installation kit for the AWS uses high quality corrosion resistant materials that can be installed on terrain ranging from sandy soil to hard bedrock. The main mast includes a free-standing tripod with a raingauge arm.

Operating Parameters

Power	Solar power or mains
Temperature	-40 to +60 °C
Operating humidity	0 to 100 %RH
Maximum wind speed	60 m/s

Applications Include:

- Climate research
- Fire weather
- Synoptic measurements
- Hydrology
- Airport systems
- Ship based marine systems
- Agricultural measurements

The iMet-4000 is a stand-alone weather station capable of measuring a user-selectable range of metoeorological variables. An open architecture allows for easy integration with a large range of 3rd party sensors. The low maintenance, rugged design allows long-term, unattended operation in remote locations under extreme weather conditions.

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Specifications subject to change without notice