


Humidity and air  
temperature sensor


Rain gauge



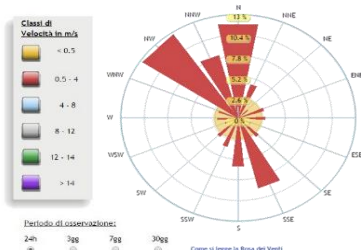
Wind speed and direction sensor



Barometric sensor



Datalogger


Data processing with IRIS  
software

product compliant with  
European directives


The ST-BASE station, used for standard weather monitoring (6 parameters) includes:

- a datalogger for processing and recording the data according to WMO standards and transfer to a central data collection, via GPRS, UMTS, cable, radio or satellite, using various protocols (serial, Modbus, FTP, TCP-IP, etc.). It comes with Linux operating system, a really simple interface and management through specific web pages;
- anti-corrosion stainless steel pole supporting the instruments, with 40 W solar panel;
- wind speed measuring sensor;
- wind direction measuring sensor;
- combined temperature (T) and air humidity (Rh) sensor;
- electronic barometer;
- rain gauge (400 cm<sup>2</sup>).

Data download from each station is done in 4 main ways:

- locally, via LAN, with laptop or similar device connection using an Internet browser (i.e. Internet Explorer, Chrome, Firefox);
- on site, by collecting/replacing the USB

memory;

- remotely, using GPRS-UMTS, radio or satellite data transmission protocol, connected to a serial port of the central unit via FTP (File Transfer Protocol) with user authentication;
- via cable, continuous download or at intervals via serial, Modbus, TCP-IP, FTP protocols

Real time data display: real time data from the station can be viewed either on the datalogger's display or through a local or remote connection to the unit using an Internet browser (dedicated web pages) where real-time data tracking of the reading acquired can be displayed in table or graphical format.

IRIS is a simple yet powerful and effective web application to represent the data obtained from a monitoring station (a file) or by a data acquisition system. It is an easy to manage open software. Specifically, it is easily accessible from any location and by anybody, as long as network connected.