

# DBAgro

## Agrometeorological Station

### POWER SUPPLY

The DCP is powered by solar energy.

### THERMOHYGROMETER

Temperature and relative humidity sensors, with protection shield.

TUSensDB

### PYRANOMETER

Solar radiation sensor

### ANEMOMETER

Direction and wind speed measuring sensor.

### TELEMETRY

GPRS/3G, SATELLITE or others.

TCeIDB  
TSatDB

### WEATHER-PROOF ENCLOSURE

Protects DCP elements such as: datalogger, battery and transmitter.

### RAIN GAUGE

Precipitation Sensor

PluviDB



## Agrometeorological Station



Used for monitoring the environmental variables related to climate and agrometeorology; Several sensors can be increased, as needed;

### PRODUCT DETAILS



#### DCP

The entire structure of the data collection platform and its supports are made of anodized aluminum. The enclosure is made of fiberglass strengthened with polyester, it has overhead protection against thermal factors and acts of vandalism. It also provides a table to aid when using a notebook.



Other models of dataloggers are possible, if needed.

#### DATALOGGER

It has 30 MB of internal memory for data storage, direct connection to PC through a USB or RS-232 port, 6 ports for analog sensors and 2 ports for communication with digital sensors. 12V of supply voltage and low power consumption, extremely adaptable and useful in various functions. Compatible with different telemetries.

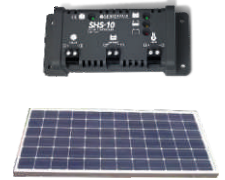


Other technologies available, such as radio, optical fiber, ethernet, Wi-Fi, etc.

#### TELEMETRY

**GPRS/3G** - It has its own transmission and reception system with a dedicated server. Intelligent system that guarantees the data delivery.

**SATELLITE** - It compresses the transmitted data to reduce the cost of traffic and quality in the transmission signal.



#### POWER SUPPLY

The data collection platform is powered by solar energy. It can also be powered by a charge controller and batteries of 7, 12, 18 Ah or as required.

Features may change without prior notice. Mar/2019

### SENSORS



#### THERMOHYGROMETER

**Relative Humidity**  
Measuring range:  
0 to 100% UR  
Maximum accuracy:  
1,8% UR (10 to 90% of UR)  
Communication: SDI-12

**Temperature**  
Measuring range:  
-40°C to 80°C  
Accuracy:  
±0,1°C @ 25°C  
Accuracy:  
±0,2°C (+5° to +40°C)  
Communication:  
SDI-12



#### RAIN GAUGE

**Tipping Bucket Rain Gauge**  
Measuring range:  
0 to 500 mm/h  
Maximum accuracy:  
±3%  
Bucket orifice opening:  
314 cm<sup>2</sup>  
Resolution:  
0,2mm



#### ANEMOMETER

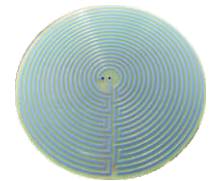
**Wind Speed**  
Measuring range:  
0 to 50 m/s  
Accuracy:  
± 0,5 m/s

**Wind Direction**  
Measuring range:  
0 to 352° (8° open)  
Accuracy:  
± 5°



#### SILICON PYRANOMETERS

**Measuring range:**  
0 to 1750 W/m<sup>2</sup>  
**Accuracy:**  
±5%  
**Sensitivity:**  
0,2 mV.W<sup>-1</sup>.m<sup>-2</sup>  
**Output:**  
0 to 350 mV,  
simple measurement.



#### LEAF WETNESS SENSOR

**Electrical resistance:**  
0 to 10 MΩ  
**Board type:**  
Fiberglass  
**Conductive surface:**  
Crome of 0,1 mm  
**Measuring range:**  
-40 to 80° C | 0 to 100% UR

**OTHERS SENSORS**- The number of sensors on the station can be increased with, for example: soil-water sensor, leaf wetness, soil heat flux sensors, "Clase A" evaporation pan, according to the user needs. Contact us.

### MANUFACTURER



**Manufacturer:** Dualbase Tecnologia Eletrônica LTDA.  
**Brand:** Dualbase  
**Model:** DBAgro-01  
**Type:** Agrometeorological Station

### REPRESENTATIVE