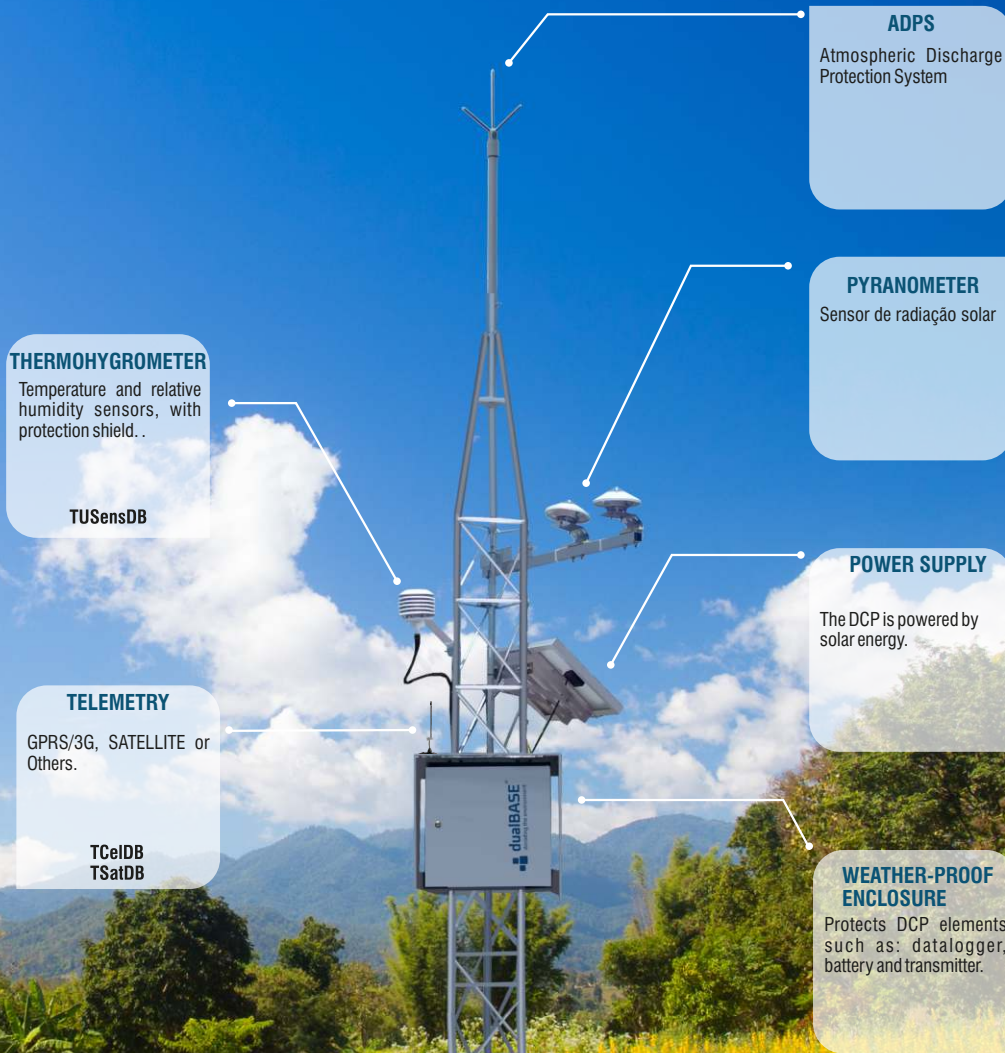


DBSol

Solar Monitoring Station





Solar Monitoring Station



Specially developed to monitor and study the solarimetric potential;
 Number of sensors can be increased according to the user needs;
 Meets the regulations of the EPE (Energy Research Company);
 Robust but lightweight structure, easy to transport and simple to install.

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: ±0,2°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 cm²
 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°

BAROMETER



Measuring Range: 600 to 1100 hPa
Maximum accuracy: ± 0,1 of F.S
Accuracy: ±0,2 hPa @25°C
Communication: SDI-12, RS-485 and 0-2,5V

PYRANOMETER THERMOPILE



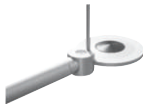
Total and diffuse radiation
 Classified as: ISO 9060 (ISO 960: 1990): first class
 WMO performance level: (WMO-No-8, 2008): good quality

PYRHELIOMETER



Direct radiation
 Classified as: ISO 9060 (ISO 9060: 1990): first class
 Maximum solar irradiance 4000 W / m²

RADIOMETER



For measurement of net radiation
 Measuring range: ± 2000 W/m²
 Manufacture in PTFE, it is robust and has several areas of application.

SUN TRACKER



Automatic
 Mechanical device with two axis movement, controlled by solar sensors.

- Automatic GPS adjustment.
- 360° azimuth movement
- 90° zenith movement

SHADOW RING



Installed with the Pyranometer to measure diffuse radiation, compatible and attachable to the Automatic Solar Tracker.

OTHERS SENSORS- The number of sensors on the station can be increased according to the user needs. Contact us.

MANUFACTURER



Manufacturer: Dualbase Tecnologia Eletrônica LTDA.
Brand: Dualbase
Model: DBSol-01
Type: Solar monitoring station

REPRESENTATIVE