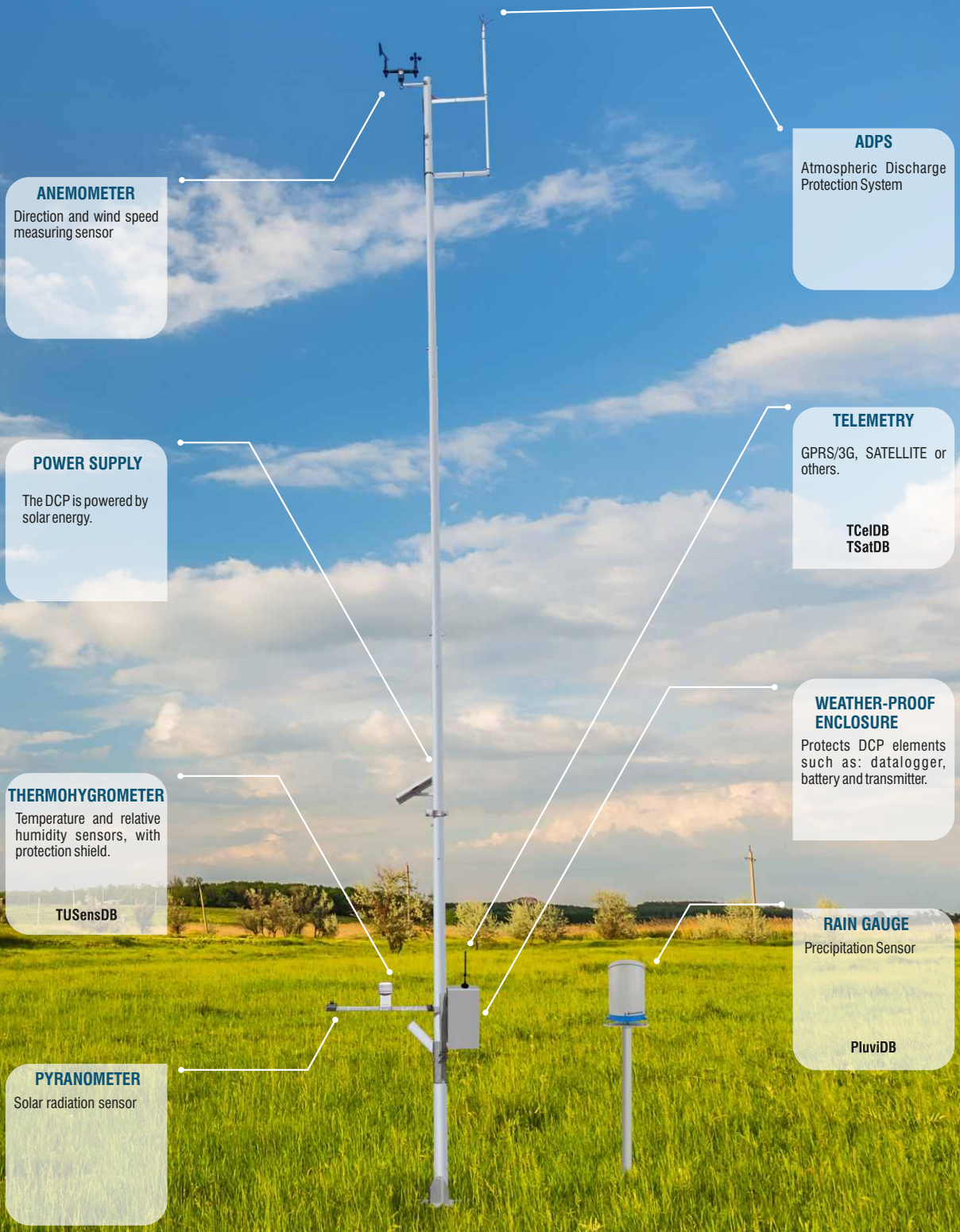


DBMet

Weather Station



ANEMOMETER
Direction and wind speed measuring sensor

ADPS
Atmospheric Discharge Protection System

POWER SUPPLY
The DCP is powered by solar energy.

TELEMETRY
GPRS/3G, SATELLITE or others.
TCelDB
TSatDB

THERMOHYGROMETER
Temperature and relative humidity sensors, with protection shield.
TUSensDB

WEATHER-PROOF ENCLOSURE
Protects DCP elements such as: datalogger, battery and transmitter.

PYRANOMETER
Solar radiation sensor

RAIN GAUGE
Precipitation Sensor
PluviDB



Weather Station



Used for monitoring the environmental variables related to weather and climate;
 Number of sensors can be increased according to the user needs;
 Meets the W.M.O (World Meteorological Organization) specifications;
 Robust but lightweight structure, easy to carry 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

SENSORES



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 cm²
 Resolution: 0,2mm



ANEMOMETER

Wind Speed
 Measuring range: 0 to 100 m/s
 Accuracy: ± 0,3 m/s or 1% of the measurement

Wind Direction
 Measuring range: 0 to 360°
 Accuracy: ± 3°



BAROMETER

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



SILICON PYRANOMETERS

Measuring range: 0 to 1750 W/m²
Accuracy: ±5%
Sensitivity: 0,2 mV.W⁻¹.m⁻²
Output: 0 to 350 mV, simple measurement.

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: DBMet-01
Type: Weather Station

REPRESENTATIVE