

# DBCompact

Data Collection Platform  
complete and compact

## RAIN GAUGE

Rainfall sensor

## POWER SYSTEM

The data collection platform is powered by solar energy.

## INTERNAL PROTECTION

Electronics protected by IP68 enclosure. Compact, Robust and Low Profile.

## TELEMETRY

Transmitter data via GSM/GPRS/3G. Robust, reliable and JAVA compliant equipment.

TCeIDB

## DATALOGGER

Analog, and Digital Ports, with SD112 capability. Rs232, Rs485 options available.





## Data Collection Platform complete and compact



**DBCompact** is an all-in-one Data Collection Platform designed for convenience and efficiency. Unlike traditional setups that require weatherproof enclosures, **DBCompact** integrates these components within its own structure, resulting in a highly practical and user-friendly system while maintaining Dualbase's renowned quality in Data Collection Platforms (DCPs). It offers various configurations to suit different applications, including DBAgro-Compact, DBMet-Compact, and DBHidro-Compact. DBCompact boasts compatibility with a wide range of sensors, including Limnimeters, Barometers, Turbidity Sensors, Thermohygrometers, Anemometers, Piranometers, Leaf Wetness Sensors, and others.

## PRODUCT DETAILS



### STRUCTURE

All the electronics are assembled inside the mounting pole. While integrating these components within its own structure, The DBCompact is a highly practical and user-friendly system and, of course, maintaining Dualbase's renowned quality



### DATALOGGER

Equipped with a CR300 datalogger, it has 30 MB of internal memory for data storage, direct connection with PC through a USB or RS-232 port, ports for analog and digital sensors. It has low power consumption and an integrated charge controller.



### TELEMETRY

It has telemetry capabilities compatible with 3G/GPRS, WIFI, Satellite and other types of transmission depending on the customers needs. The choice of the telemetry may be done at the purchase.



### ENERGY SYSTEM

Uses solar power charging system, using solar panels of 5 or 10 Watts, depending on the location that is installed. The standard battery is 5 Ah but for applications without telemetry it is possible to use 4,6 Ah battery.

Features may change without prior notice. Sep/2023

## 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  
±0,2°C (+5° to +40°C)  
Communication:  
SDI-12



### BAROMETER

**Measuring range:**  
600 to 1100 hPa  
**Maximum accuracy:**  
± 0,1% of F.S  
**Accuracy:**  
±0,3 hPa @25°C  
**Communication:**  
SDI-12, RS-485 and 0-2,5V



### WATER LEVEL SENSOR

**Submersible absolute or relative hydrostatic pressure sensor**  
Measuring range:  
0 to 20 mH2O  
Accuracy:  
± 0,1% of F.S  
Communication:  
SDI-12, 4-20 mA and RS-485



### 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.



### ANEMOMETER

**Wind Speed**  
Measuring range:  
0 to 60 m/s  
Accuracy:  
± 0,5 m/s

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

**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:** DBCompact  
**Type:** Compact data collection platform

## REPRESENTATIVE