

- Measuring range 500 ~ 1100 hPa
- Measuring accuracy  $\pm 0.1\text{hPa}(-10^{\circ}\text{C}\sim 50^{\circ}\text{C})$ ;  
 $\pm 0.2\text{hPa}(-40^{\circ}\text{C}\sim 50^{\circ}\text{C})$
- 1-3 sensors for selectable configuration
- Additional QFE and QNH display
- Support calibration offset



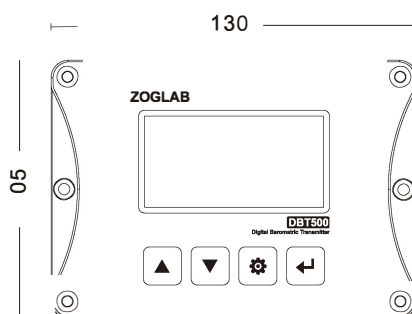
## DBT500 Digital Barometric Transmitter

DBT500 is a highly accurate and cost-effective barometric sensor and transmitter. It can achieve accuracy of  $\pm 0.1\text{hPa}$  full scale and a resolution of  $0.01\text{hPa}$  over a wide temperature range  $-40\sim 50^{\circ}\text{C}$ . It comes with configurable pressure transducers(1-3) and selectable display parameters including QFE and QNH. With its compact size and simple design, it can be installed on a variety of AWS, AWOS and Hydromet systems. DBT500 has a high-brightness OLED display and waterproof design which make it possible to be used in the field installation and operation. It supports 1 million units of data or up to 1 month of recording capacity with a built-in battery that can operate for 8 hours without direct power supply. For easy integration with data loggers, DBT500 supports various communication interfaces including RS232, USB and LAN. DBT500 is a widely used digital barometer in meteorology, civil aviation, marine monitoring, environmental protection, agriculture and other fields.

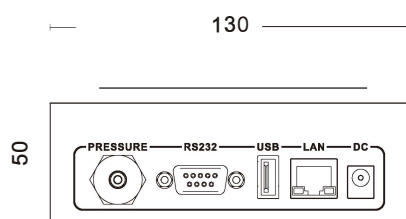
## Technical Specification

Pressure measuring range	500~1100 hPa
Pressure measuring accuracy	±0.10hPa(-10°C~50°C); ±0.20hPa(-40°C~50°C)
Pressure measuring resolution	0.01hPa
Stability	≤0.2hPa/year
Calibration cycle	1 year
Display	3.0" OLED
Display unit	Pa,kPa,hPa, inHg,inH <sub>2</sub> O,mmHg, mmH <sub>2</sub> O, psi, mbar,bar,atm
Stabilization time	< 30s
Memory	1.04 million units
Working environment	-30°C~50°C, 5%~95%RH(Non condensing)
Storage environment	-40°C~85°C, 5%~95%RH(Non condensing)
Power supply	7~24VDC
Operating current	120mA@12V during calibration mode(under non-charging status) 85mA@12V during screen off mode(under non-charging status)
Battery	Lithium battery 3.7V/2600mAh
Battery runtime	6~8 hours
Communication interface	RS232/485, USB , LAN
EMC	EN 50081-1 Class B, EN 50082-1 Class B
ESD Protection	±25KV
Dimensions	130×105×50mm
Weight	600g(Max)
Certificates	CE

## Dimensions(mm)



Top view



Front view

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