

E700 TELEMETRY UNIT

**Water level monitoring of
underground water, reservoir,
rivers, lakes, & oceanic tides, etc**

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E700 telemetry unit



Data Acquisition:

Both real time data acquisition, and historical data collection; remote parameter settings, like sample rate.



Data Transmission:

By wireless communication, realize real time data transmission, historical data collection, remote settings, and management.



Data Query:

Remotely query the historical data at a specific point in time or a period of time.



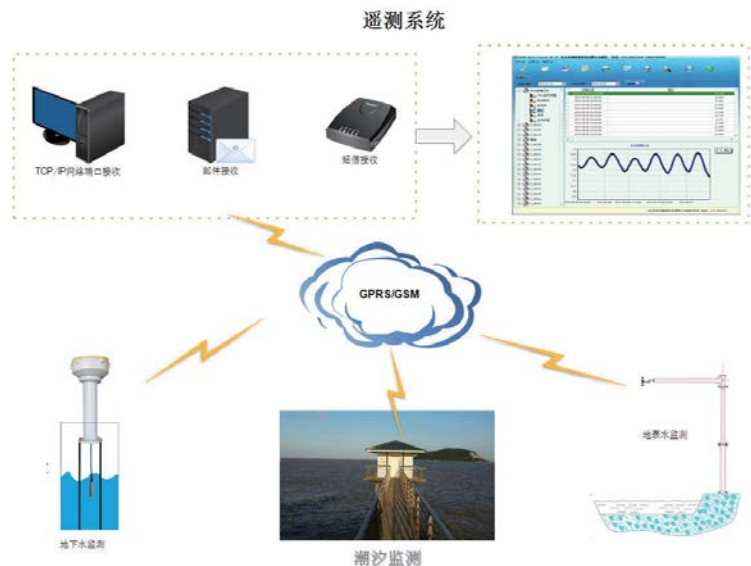
Data Storage:

4G local storage, remote server, or email.

With the development of IOT technology, telemetry data terminal keeps forging ahead to miniaturize, intelligitize, integrate. E700 telemetry unit, developed by Beijing Hydrosurvey Science & Technology Co., Ltd., is an integrated ultralow power consumption telemetry system. The network data center software is certified by SIPO of the P.R.C.

Integrated the functions of data acquisition, data storage, data query, and data transmission, E700 can work with most of the sensors with RS232 and RS485 interface, collect the data from the sensors, then send to the network data receiving center for the final data storage, query, analysis, import and export.

E700, with its built-in antenna, GPS, can adjust time, position in real time; integrated barometric pressure sensor, temperature sensor, E700 can measure barometric pressure and temperature;



Due to its ultralow power consumption, integrated design, self-reported working mode and bulk-storage memory, E700 can save a lot of working time, and improve work efficiency significantly. Besides, E700 is also with the features of small volume, light weight, robustness, easy installation and operation.



Features:

1. Wireless communication, local configuration, and data sharing world-wide
— Where there is GPRS(or radio, or Iridium), there is data transmission
2. Multiple data transmission mode
— By email, SMS, Server, get monitoring data from all the monitory points in the office.
3. Compatible with most kinds of sensors
— can be used with sensors whether it's digital or analog output.
4. Built-in antenna, GPS
— time adjustment, and positioning
5. Integrated with Barometric pressure sensor, pressure sensor
6. Storage of large volume data, 4GB storage spaces can store data collected in more than 1 year.
7. Ultralow consumption
— standby current under 1mA; The built-in battery can be used for at least 1 year when the sampling interval is 5 minutes and transmitting interval is 2 hours.
8. Power the external sensors
9. Friendly green software, free installed
10. Easy to install and operate. Non-professional is ok with it.
11. Built-in magnet switch, IPX67 waterproof design
12. Historical data collection
13. Upgradeable , customizable

Software

E700 is supplied with EDataManager, a Windows based PC software, for instrument setup, data extraction, add data to the database and display, export. EDataManager is license free.



- Monitoring site management
- Historical data query
- User management
- Data preview and export
- Data graphs production

Typical Application

Meteorology



Rivers



Ocean tides



Underground water



Environmental



Agriculture



Technical parameters

Interface

Sensor: RS232、RS485

Power: Output: 12VDC Input: 6-24VDC

Specification: 6-pin waterproof Lemo connector, or stainless steel waterproof connector

Storage

Memory: 4M

Storage spaces: 4G pluggable storage card

Built-in sensor

Positioning: built-in GPS, positional accuracy: 2m to 5m, automatic time adjustment

Barometric pressure: resolution: 0.1mbar, relative pressure accuracy: ± 0.5 mbar

Temperature: built-in temperature sensor, accuracy: $\pm 0.8^{\circ}\text{C}$

Communication

Data transmitting channel: GPRS, supporting email, static IP address, and SMS.

Communication of instrument configuration: 2.4G wireless communication

Power Supply

Built-in: 3.7V, 22AH rechargeable lithium battery (with solar panel.)

Clock battery: 3V

Waterproof: IPX67

Physical

Profile: Discotic or Columnar

Dimensions: Discotic: dia.: 8 cm height: 8 cm; Columnar: dia. 1.8cm height 8cm

Weight: 720g

Material: ABS, UV treatment on surface

Optional:

Iridium, solar panel, etc

Functions

- ✓ Custom configuration of data acquisition interval, data transmission interval, average value calculation
- ✓ 2.4G wireless communication module, makes wireless remote configuration possible
- ✓ Long-distance instrument reset and configuration modification
- ✓ Collect historical data
- ✓ Voltage monitoring
- ✓ Communication signal monitoring
- ✓ 12VDC power supply to the sensor
- ✓ Solar panel can charge the Built-in rechargeable Lithium battery
- ✓ Data query, storage, and data graph production.

Purchasing Advice

1. You can purchase only the E700 telemetry unit with its software;
2. Or you can buy E700 hardware and data centre together, as an integrated system;
3. Or you can also customize your data transmission systems or instruments to meet your specific field applications.
4. We'll supply you all kinds of solutions for field monitoring and data transmission.



With E700 telemetry unit, you can

1. Get rid of installation of large area of solar panels outdoors;
2. Get rid of bulky storage battery and the maintenances;
3. Avoid going and coping data file repeatedly;
4. Save labor for installation of big and heavy instrument boxes;
5. Data transmitted to where you want only if there is signal
6. Field work becomes a pleasant experience