



brief features

The CELL900D GSM Data Logger is a system equipped with advanced communication capabilities, the CELL900D ensures reliable and real-time data transmission, facilitating remote monitoring and management of critical parameters.

The CELL900D excels in maintaining consistent performance across diverse environmental conditions, leveraging its robust design to operate reliably in various industrial settings. Its versatility extends across multiple sectors including automotive, marine, and industrial applications, where it plays a pivotal role in ensuring compliance with stringent regulatory standards.

In essence, the CELL900D GSM Data Logger represents a pivotal advancement in environmental monitoring technology, offering comprehensive data collection, transmission, and management capabilities essential for regulatory compliance and environmental stewardship in modern industries.

The intelligent CELL900D use advanced dual core MCU. Web enabled intuitive and easy-to-use menu for monitoring, configuration and diagnostics. Modbus RS485 (according to requirement) option can be used to connect with any PLC or SCADA.

applications customers

APPLICATIONS

For application in industrial and commercial temperature monitoring

- Water Storage Facility
- Pharmaceutical Storage
- Warehouses and Logistics
- Industrial Processes

CUSTOMERS

Industrial and commercial sectors, such as:

- Agriculture
- Textiles
- Quality Control Labs
- Research Institutions
- Chemical processing
- Power plants
- Bulk customers (housing societies)
- Hotels

technical specifications

FEATURES

The CELL900D telemetry system with latest CPU with forward-thinking algorithms and web server function modules makes it more user friendly.

Informative

- Smart phone/Laptop any using web browser.
- Remote server

Environmentally Tough

- UPVC housing
- Wiring harness IP65 with water proof glands

Easy To Use

Operation can be done within minutes. Connect the field instrument with pre made wiring harness. Keep it online and configure it by using local App and get the data on online remote server.

Housing:

- Housing: UPVC IP 65 water proof
- Mounting: Wall mounting
- Size: 140mm X 38mm X 35mm

Communications:

3 types of communications available

- Modbus RS485 (Master)
- Wi-Fi for Web Server
- GSM/GPRS 2G/3G

Setup

- Calibration, Configuration & OTA: From any web browser through smart phone or laptop Wi-Fi

SPECIFICATIONS

Power Supply: 9~24 V DC, 5 W

Password: 3 Level of passwords restriction

- Admin Account
- User Account
- SSID

EEPROM:

Data retention 20,000 records (100 B/Record)

CPU:

- Dual core up to 240 MHZ
- Flash RAM: 4 MB
- SRAM: 520 KB SRAM

Digital inputs: 1 Nos. (Non-Isolated)

- Pulse Counter

Backup power:

- 1~2 Hours with Li-ion battery
- Light Sleep Mode

Transmission: User programable

- Interval: 12~24 Hour
- Method: Using Mosquito broker via MQTT
- Protocol: MQTT

Configuration:

- Remote: Could server using MQTT protocol

Database: Mongo DB API development

Environmental:

- Operating Temperature: -10~65 °C
- Storage: -40~85 °C
- Relative humidity: 10~90%

Connections:

- PCB: Removable screw terminal blocks
- Terminal block: Wire size: 0.5~0.7 mm
- Field connections: Wiring harness 3 meters

Warranty: 1 year after delivery

Communication Modbus tags

CONFIGURATION

CELL900D has built-in Wi-Fi module with complete SPIF web enabled stack. Therefore, there is no need of any special data communication hardware or software, an end user can easily configurate it by using any browser through HTTP. In configuration mode CELL900D will act as a Master.

MODBUS RS485

CELL900D has built-in Modbus RS485 module, therefore, end user can get the data to PLC, DCS, SCADA, OPC server or any data communication module/software.

DATA LOGGING

Furthermore, CELL900D has comprehensive feature of data transferring of its tags to local or cloud server by using its built-in Wi-Fi module in Slave mode through HTTP/MQTT. By using feature end user can log the data to its local or remote server for online monitoring and reporting purpose.

Standard Modbus tags detail is as under for communication.

DEFINE NAME	TYPE	ADDRESS	
Flow	Swapped long	0X02	Function code: 03 or 04
Total Flow	Swapped long	0X04	Register type: Holding register

mounting instructions

For proper reliable monitoring, GSM Data Logger should be installed properly.



forward thinking

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