3G Data Logger

CL32

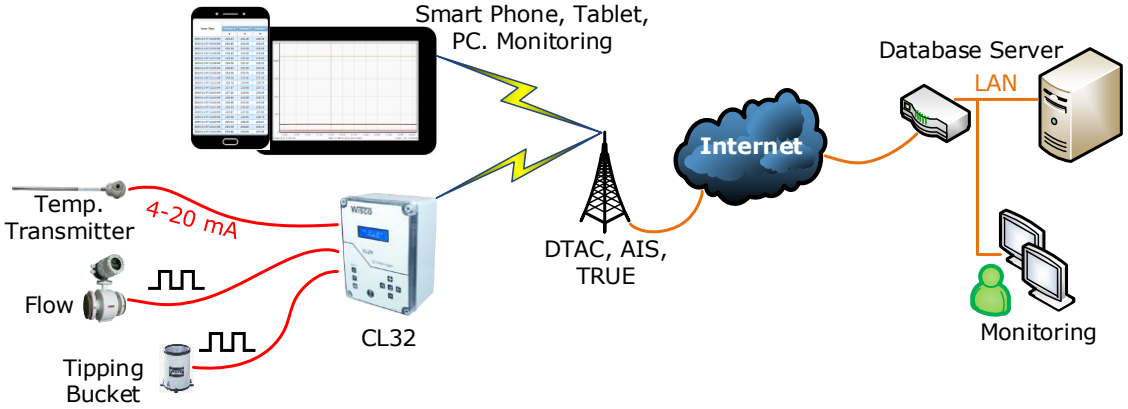


- Smart Phone, Tablet, PC. Real Time Monitoring
- 4 Analog Input
- 2 Digital Input (Logic or Counter)
- Built-in 3G Modem (UMTS/HSDPA)
- Centralize data logger (Logger on common Database: MySQL, SQL Server)
- Memory 2 Mbyte (Internal)
- Data exportable to MS Excel
- Support External Supply

3G Data Logger CL32 The CL32 is a device designed to record various measurement values. It is capable of measuring both analog and digital (pulse) signals, continuously storing the data in its flash memory with associated timestamps (date and time). The recorded data is transmitted via GPRS over the internet to the servers (MySQL, SQL Server) of a Centralized Data Logging System, allowing for simultaneous data viewing on smartphones, tablets, or PCs.

Analog Input Selectable measurement signals include 4-20 mA, 0-100 mVDC, 1-5 VDC, 0-5 VDC, and 0-10 VDC, originating from sources such as transmitters or sensor transmitters.

Digital Input It can accept either Logic or Counter signals. Logic signals indicate an "ON" or "OFF" operational status, while Counter signals track the number of input pulses-such as recording totalized flow or electricity consumption in kWh.



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Specifications

Cellular Interface

Dual Band: UMTS/HSDPA (900/2100 MHz)
Quad Band: GSM/GPRS/EDGE (850/900/1800/1900 MHz)
GPRS multi-slot: Class 12
EDGE multi-slot: Class 12
WCDMA 3GPP: Release 5
Output power:
UMTS 850/1900: 0.25W
UMTS 900/2100: 0.25W
GSM 850/GSM 900: 2W
DCS 1800/PCS 1900: 1W
Data Transfer (Max.):
HSDPA: 3.6 Mbps (DL)
WCDMA: 384 Kbps (DL), 384 Kbps (UL)
EDGE Class: 236.8 Kbps (DL), 118 Kbps (UL)
GPRS: 85.6 Kbps (DL), 42.8 Kbps (UL)
CSD: GSM data rate 14.4 Kbps

USB Interface

Compliance: USB 1.1/2.0
Connector: USB Type B
Speed: 12 Mbps (Full-Speed USB)
Operating System: Windows 98/SE, ME, NT, 2000, XP, 7, 8, 10, Vista

Analog Input

Number of Channel: 4 Channels
Input Type: Voltage, Current
Input Range:
Voltage mVDC (0 to 100 mVDC)
Voltage (0 to 5, 1 to 5, 0 to 10 VDC)
Current (4 to 20 mA)
ADC Resolution: 16 Bits

Digital Input

Number of Channel: 2 Channels
(Logic or Counter, Programmable Input)
Sensor Type: Wet Contact
ON : 12 to 24 VDC
OFF : 0 to 3 VDC
Isolation: Opto Isolated
Counter Frequency: Maximum 20 Hz
Minimum Pulse Width: 50 msec

System Requirement

Web Server: Apache 2.2, IIS
Script: PHP 5.4.3
Database: MySQL 5.5, SQL Server

Recording

Storage Internal: 2 Mbyte
Recording Interval: 1 sec - 1 Hours (Programmable)
Record Mode: Stop when full
Data Format: Can be Exported to MS Excel
Data Capacity: 74,000 Records (6 Channels Input)

Power Requirements

Internal Supply: Battery 3.6 VDC @ 40 Ah.
External Supply: 12 to 24 VDC

Power Consumption

Standby: 10 µA @ 3.6 VDC
Upload Data: 200 mA @ 3.6 VDC

Environmental Limits

Operating Temperature: 0 to 55 °C
Operating Humidity: 5 to 95% RH
Storage Temperature: 0 to 70 °C

Physical Characteristics

Dimension: W149 x H198 x D102 mm.
Protection: IP67

Warranty

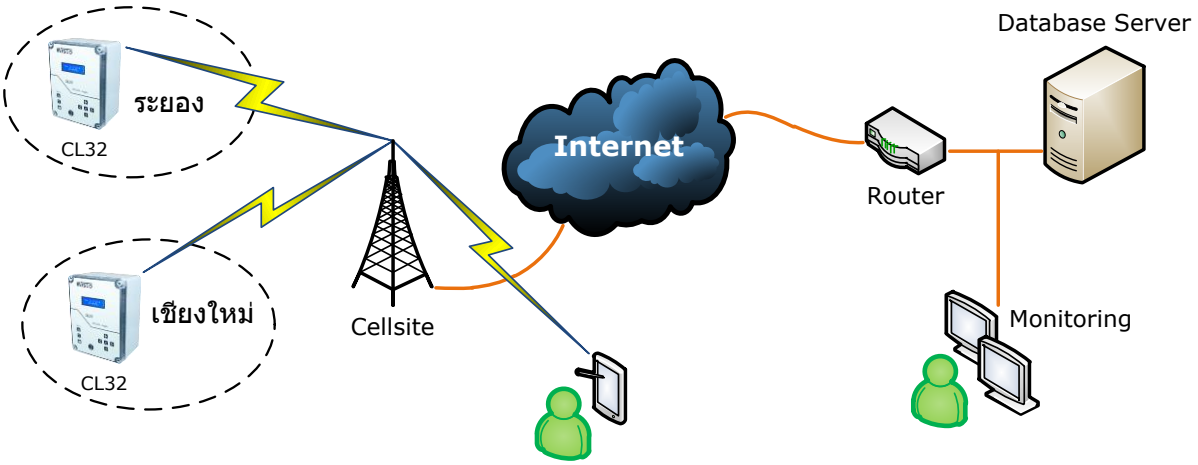
Warranty Period: 1 Year

Ordering Information: Specify Input Range
Example CL32/4-20 mA
Package Checklist

1. CL32
2. Antenna
3. USB Cable

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Centralized Data Logging System



Show an overview of the Centralized Data Logging System.

The figure illustrates a Centralized Data Logging System evolved from a standard server-based database system. Simply put, the CL32 transmits signal data via GPRS over the internet to the system's server; the data stored on the server can then be accessed or managed from anywhere using a computer, PDA, mobile phone, or any other internet-connected device.

In essence, a Centralized Data Logging System is a network-based, centralized data storage solution that leverages server capabilities and the Internet. Data is aggregated at a central server and distributed via the Internet, facilitating easy management and remote access from any location with connectivity, thereby eliminating the need to physically retrieve data directly from the devices themselves.