

# 3G Data Logger CL29



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

**3G Data Logger CL29** is recording device for collecting Pressure, Analog and Digital (Pulse) CL29 continuous recording to internal Flash Memory. Every record will indicate date and time. Data transfer to server via GPRS using 3G internet connection. Can view data simultaneously via Smart Phone, Tablet, PC.

### Pressure Input 0 - 10 Bar

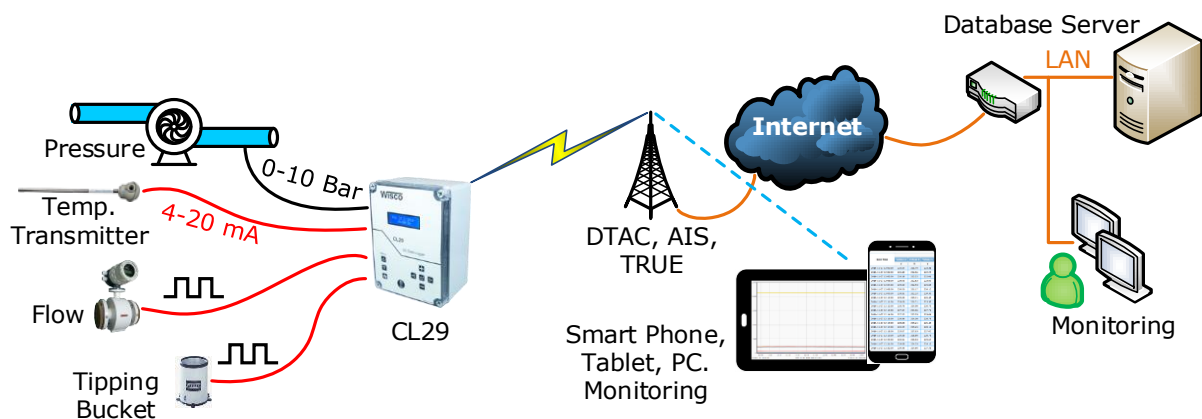
Example for application of Pressure

**Air** recording air data for power saving analysis

**Water** collecting data for reduce water loss (DMA)

**Analog Input** we offer 4-20 mA, 0-100 mVdc, 1-5 Vdc, 0-5 Vdc, 0-10 Vdc form any transmitter or sensors.

**Digital Input** can be both "Logic" or "Counter". Logic as status such as "ON" and "OFF". Counter for Totalized input pulse.



## 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, Vista

### Pressure Input

**Number of Channel:** 1 Channel

**Input Type:** Pressure

**Input Range:** 0 to 10 Bar

**ADC Resolution:** 16 Bits

**Accuracy:**  $\pm 0.2$  % of span

### Analog Input

**Number of Channel:** 3 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

**Ordering Information:** Specify Input Range

Example CL29/4-20 mA

### Package Checklist

1. CL29
2. USB Cable
3. Manual
4. CD Software

### 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

### 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  $\mu$ A @ 3.6 VDC

**Upload Data:** 200 mA @ 3.6 VDC

### Environmental Limits

**Operating Temperature:** 0 to 55  $^{\circ}$ C

**Operating Humidity:** 5 to 95% RH

**Storage Temperature:** 0 to 70  $^{\circ}$ C

### Physical Characteristics

**Dimension:** W198 x H149 x D102 mm.

### Warranty

**Warranty Period:** 1 year

# Centralized Data Logging System

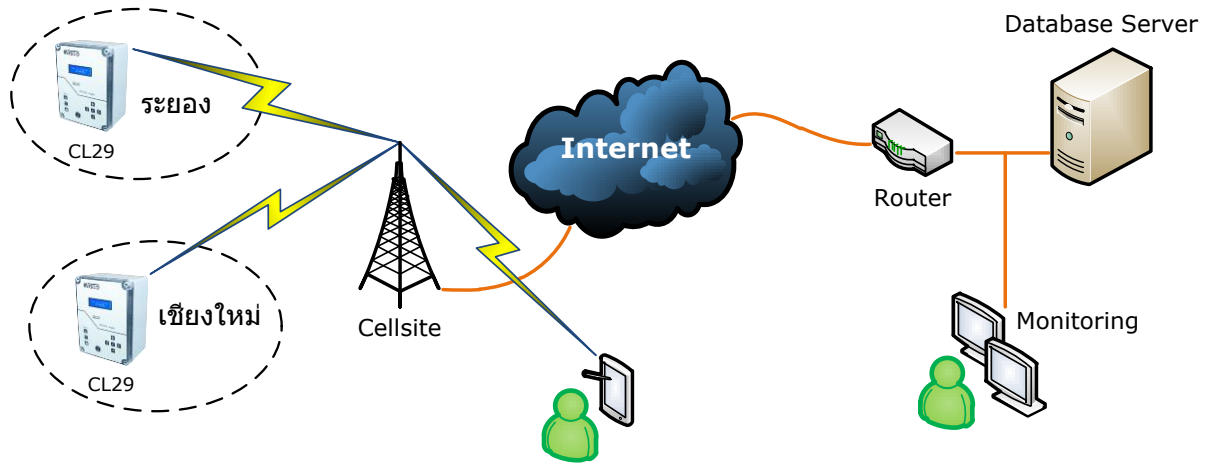


Figure 1 Centralized Data Logging System

Figure 1 show diagram of Centralized Data Logging System. Centralized Data Logging System is the system that combines ability of server and internet network. All data will be sending to server then data will be spread out using internet network. It is easy to get a data, long distance is not a problem, and everyone will get the same information no matter wherever they are.