GEOLOGICAL, GEOPHYSICAL, GEOTECHNICAL SERVICES AND INSTRUMENTS

OYO

Remote Monitoring System for Data Logger and Transmission Unit

i-SENSOR2 Logger

Mobile phone communication module : GSM/GPRS

Wireless-link network module

1 year operation with the internal battery
* measurement every 1 hour and transmission at twice a day

Splash-proof seal with O-ring

Splash-proof seal at the cable insertion slot

Communication/wireless-link module and battery are contained in the housing with splash-proof and it is available to install this without a storage box.

< Abstract >

i-SENSOR2 (Intelligent-SENSOR2) Logger is data logger and transfer unit with a wide variety of input functions. This logger has a wireless-link function to aggregate monitoring data into the main logger and a function of transmitting the monitoring data by GSM/GPRS.

Splash-proof housing and lithium batteries are adopted and a storage box is not necessary. Installation work becomes easier and it leads to saving cost by reducing work load and time.

There are 2 types of the logger consisting of main [M4] and sub [S4], and deployment plan can be easily / flexibly arranged depending on site conditions.

< Features >

- Compact body with batteries contained and unnecessity of a storage box
- 2 types of wireless function, mobile phone network and 2.4 GHz wireless-link
- The main [M4] being linkable up to 3 subs [S4]
- Saving work cost and communication charge by reducing installation time and transmitting monitoring data by aggregating between several loggers
- Connecting analog sensor, S&DL series (digital sensor) and rain gauge (pulse output)
- Threshold judgment function with being changeable measurement and transmitting interval automatically
- Retrieving data with SD card instead of data transmitting in case of some communication failure
- Synchronizing time and acquisition of its position roughly by GPS

< Specification >

O Data Logging

Analog input : 4ch
  (Voltage and current input are switchable)
  Voltage input range: +/-2.5 V, +/-5 V (switchable)
  Current input range: 0 to 25 mA

Digital input : 1ch
  (RS232C port for connection with S&DL series)

Contact input : 3ch

Contact output : 3ch (non-voltage contact)

Pulse input : 1ch
  (Tipping bucket type rain gauge)

Connectable number of wireless-link
    : Up to 3 units

O Interface

USB : USB2.0 x 1 port
  (For conversion port between USB and RS232C)

Memory card : SD-card, SDHC-card

Communication : SIM-card (GSM/GPRS)

O Communication

Packet communication : GSM/GPRS

Wireless-link : 2.4 GHz, Smart Mesh IP

Time & position : GPS

O Power Source

Input voltage : DC+6 V to DC+15 V

O Data Logger

Data storage capacity : approx. 25,000 data
  (The capacity is depending on measurement items)

O Housing

Protection grade : Splash-proof
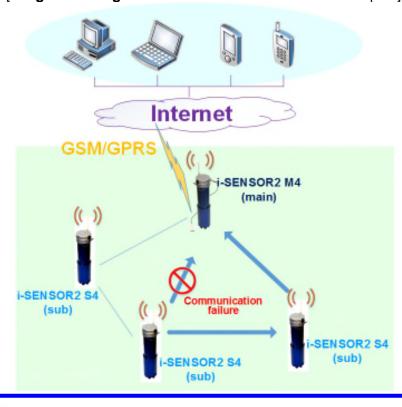
O Outer Dimension

Outer size : φ85 x 395 mm
  (Excluding projections)

Weight : approx. 1.5 kg
  (Excluding internal buttery)

[**Image of Configuration**: communication & wireless-link path]