Field Data Transmission Service
- GSM/GPRS, W-CDMA for-

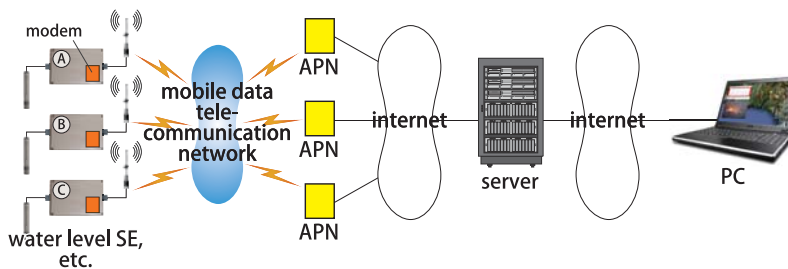# SESAME II-02d

Distributor :
Midori Engineering
Labo. Co., Ltd

Water Level Logging & Transmitting from the World

Water level sensor

SESAME II-02d
Sensory data transmission Service Assisted by Midori Engineering

serial No.

株式会社みどり工学研究所 Midori Engineering Co., Ltd. / Made in Japan

Rain gauge

How to send data via the Internet

modem

APN

mobile data
tele-
communication
network

APN

internet

server

internet

PC

APN

water level SE,
etc.

SESAME II-02d is a field data transmitter that makes you possible to get real-time field data at your home and office!

SESAME II-02d and a wide range of power-saving sensors (water level, temperature, humidity, soil moisture, rain gauge, etc.) can be driven by solar cell and rechargeable batteries for 24 hours. A built-in modem periodically sends the stored data to a cloud server of SESAME System via the mobile phone network. So the users can access the data in the cloud server via the Internet.

SESAME II-02d can remember two threshold values on water level data. When the water level exceeds or drops below the thresholds, an alert or all clear e-mail is automatically sent. The SESAME System is therefore very useful for emergency measures for natural disasters.

For SESAME System : Field data logging & transmitter SESAMEII-02d

General Specifications

Name	Field Data Transmitter
Model No.	SESAME II-02d
Recording Media	Internal Memory (4 MB)/SD Card
Band Frequency	GSM/GPRS/W-CDMA
Input	4~20 mA: 1 for Water Level 0~2 V: 1 Temperature/Resistance: 2 Pulse: 1 for Rainfall
Output	Pulse: 2
Antenna	Mobile Terminal: 1, GPS: 1
Operating Temp.	-20 to 50℃
Power Source	Internal (Standard): 　7.2 VDC, 2000 mA, Ni-MH Battery 　with Solar Cell (3~10 W) External (Optional): 　12 VDC, 7 Ah~, Deep Cycle Battery 　with Solar Cell (10~20 W)
Power Requirement	Sensing and Recording: 　40 mAh for 4~20 mA Input 　4 mAh for Other Input Transmission: 600 mAh

Sensor Specifications

Water Level	Pressure Sensor (Back pressure compensated)	
	Range	0~100 m (Max)
	Accuracy	0.1% F.S.
	Cable Length	Requested
	Other Types	Electrode Sensor Ultrasonic Sensor
Temperature	Thermistor	
	Range	-40~90℃
	Resolution	0.2℃
	Accuracy	1℃
Resistance	Range	0~20 kΩ
	Resolution	0.1 kΩ
Voltage	Range	0~2 VDC
	Resolution	0.5 mV
Pulse	For Rainfall, Slow Pulse (Max: 1 Hz)	

Memory Card — 32 × 24

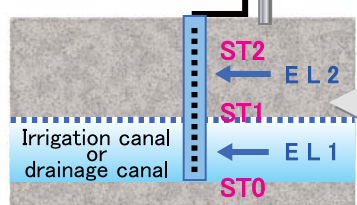**Silicagel Cell** — φ13×L120

200mm / 75mm / 150mm / 200mm
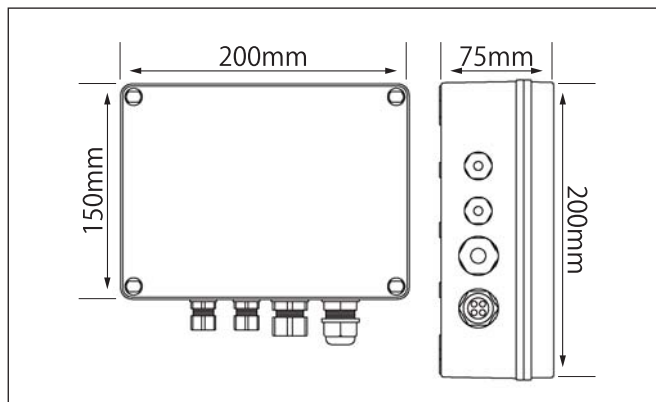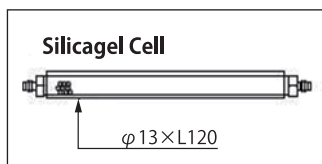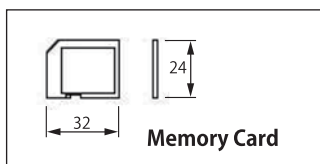
Intervals of alarming and data transmission

W-CDMA, GSM/GPRS is available

Solar Cell,etc

- Water Level
- Water temperature(∗)
- Air temperature(∗)
- Rainfall(∗)

ST2
ST1
ST0
EL2
EL1

Irrigation canal or drainage canal

(∗) OPTION
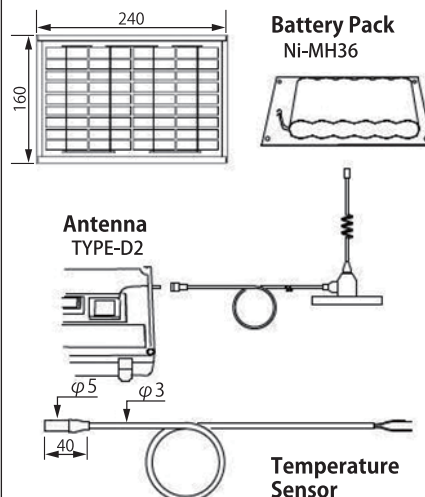You need to prepare temperature sensors and a rainfall gauge.

- Possible to change the time intervals of measurement and transmission in response to the ranges of water level (WL): ST0, ST1, and ST2.
  - ST2: High WL range, ＞ EL2
  - ST1: Normal WL range, EL1~EL2
  - ST0: Low WL range, ＜ EL1

- A constant α should be given as a buffer for preventing chattering of alarm.
  - Alarm for High WL range is···
    - Issued when WL exceeds EL2.
    - Cleared when WL drops below EL2-α.
  - Alarm for Low WL range is···
    - Issued when WL drops below EL1.
    - Cleared when WL exceeds EL1-α.

OPTION
Solar Cell — 240 / 160

Battery Pack
Ni-MH36

Antenna
TYPE-D2

φ5 / φ3 / 40

Temperature Sensor