

Field Data Transmission Service
GSM/GPRS, 3G [W-CDMA], & 4G

SESAME II-02q

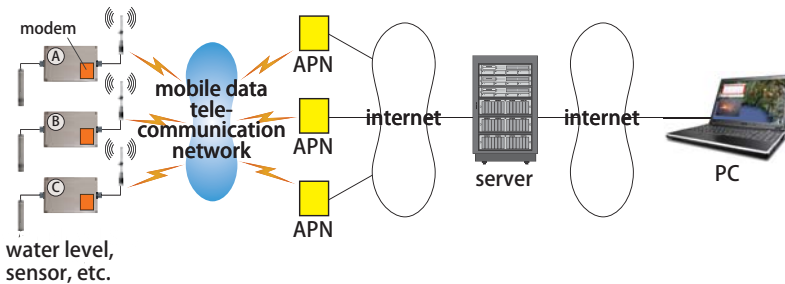
Manufacturer :

 Midori Engineering
Lab. Co., Ltd

Water Level Logging & Transmitting from the World



How to send data via the Internet



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

SESAME II-02q 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-02q can remember three 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.



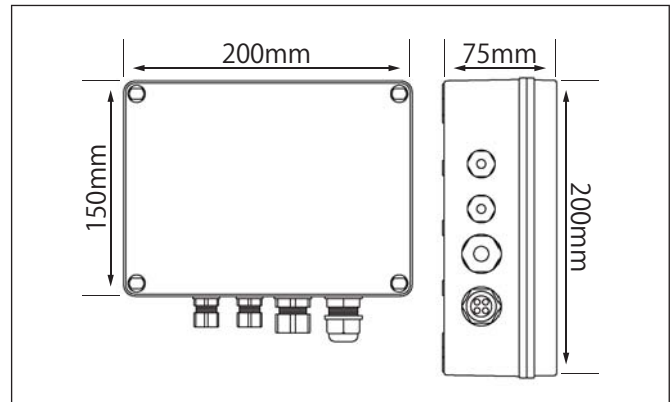
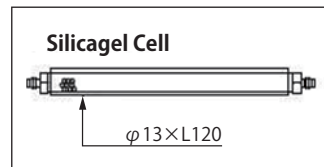
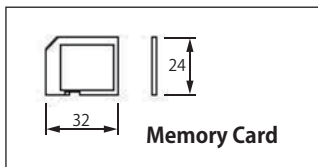
For SESAME System : Field data logging & transmitter SESAME II-02q

General Specifications

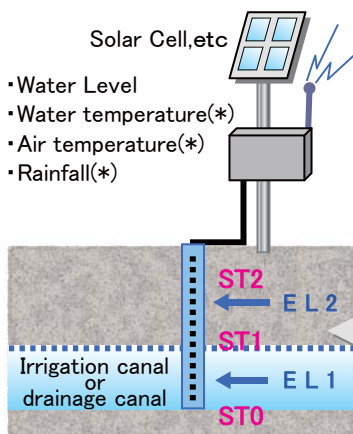
Name	Field Data Transmitter
Model No.	SESAME II-02q
Recording Media	Internal Memory (4 MB)/SD Card
Band Frequency	GSM/GPRS/3G(W-CDMA)/4G(LTE)
Input	4~20 mA: 1 for Water Level 0~2 V: 3 Temperature/Resistance: 2 Pulse: 1 for Rainfall
Output	Pulse: 2 (open collector)
Antenna	Mobile Terminal: 1, GPS: 1 (Optional)
Operating Temp.	-20 to 50°C
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: 0.12 mAh for 4~20 mA Input 0.04 mAh for Other Input Transmission: 1.6 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°C
	Resolution	0.2°C
	Accuracy	1°C
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)	



Intervals of alarming and data transmission



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

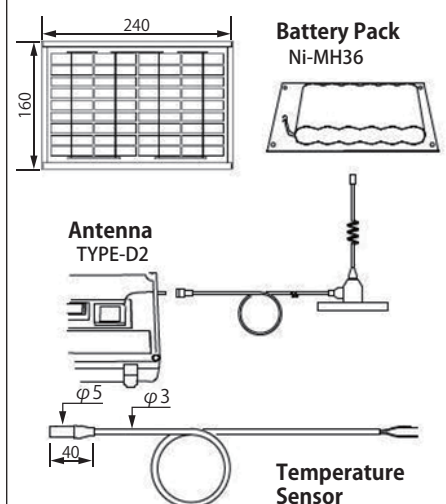
- Possible to change the time intervals of measurement and transmission in response to the ranges of water level (WL): ST0, ST1, and ST2.

- 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 $EL2 - \alpha$.
- Alarm for Low WL range is...
 - Issued when WL drops below EL1.
 - Cleared when WL exceeds $EL1 - \alpha$.

OPTION



Manufacturer

Midori Engineering Lab. Co., Ltd

TEL +81 11-555-5000

URL <https://www.midori-eng.co.jp/>

Emai info@midori-eng.co.jp

802 Dotsu Bild. 1-23 Kita 5 jo
Nishi 6 chome Chuo-ku,
Sapporo, Japan
#060-0005