

# SENSAPHONE®

REMOTE MONITORING SOLUTIONS

## Wireless Solutions

### *REMOTE MONITORING FROM ANYWHERE*



**CELL682**   
Wireless Alarms



- Remote monitoring
- Alarm notification
- Control
- Cellular communications
- For most remote locations

**SAT4D**   
100% COVERAGE



- Remote monitoring
- Alarm notification
- Satellite communications
- For any location no matter how remote



The latest addition to the Sensaphone wireless series of remote monitoring solutions is the Cell682. It can be placed at a remote, unmanned facility to detect a variety of potential equipment problems, and can even perform some output control. It uses standard cellular technology to communicate with the Sensaphone servers. If a telephone line is not already in place, the cellular communications in the Sensaphone Cell682 can provide a convenient, reliable, and cost effective method to monitor a remote facility.

The Sensaphone Cell682 provides an assortment of sensor input options to handle many different types of sensors and conditions to monitor. Two relay outputs are also included in the Cell682 for local control.

### 6 Analog Inputs

- Can accept any 4-20mA analog transducer.
- Input range can be custom scaled to measure in real engineering units.
- Thermistors can be connected directly to accurately measure temperature.

### 8 Dry Contact Inputs

- Each channel can be normally open or normally closed.
- Any input can be configured to accumulate run time.

### 2 Relay Outputs

- Manually controlled through website.
- Automatically switched when an alarm occurs.
- Built in duplex pump control logic.
- Alarms can automatically initiate an output response to a different location.

### Alarm Notification

When an input channel detects an alarm, or out of range condition, there is an immediate communication from the Cell682 out to the redundant Sensaphone servers to process the alarm. The appropriate people are then contacted immediately by the Sensaphone servers using the following methods:

- E-mail messages
- Cell phone and pager text messages
- Custom voice phone calls

The Cell682 is packaged for outdoor use in a Nema-4X housing, and even includes battery backup. A website is provided for status, history, alarm response programming, and manual output control.

**CELL682 SENSAPHONE**  
REMOTE MONITORING SOLUTIONS

System Name: C-682 - C-682  
P/N: 250

Programming Last Refreshed: 11:03 PM 05/27/2009  
Last Web Programming Change: 11:03 PM 05/27/2009  
Status Last Refreshed: 11:03 PM 05/27/2009

**Alarm Acknowledgment History**

Alarm Date	IO Point	Type	Alarm Limit	Who Acknowledged
03:14 PM 05/27/2009	Dry Contact P1: 1	Alarm	—	Automatic
03:21 PM 05/27/2009	Dry Contact P1: High Water	Alarm	—	Contact 1: Dave
12:18 PM 05/26/2009	Dry Contact P1: High Water	Alarm	—	Contact 1: Dave
12:12 PM 05/26/2009	Dry Contact P1: High Water	Alarm	—	Contact 1: Dave
12:02 PM 05/26/2009	Dry Contact P1: High Water	Alarm	—	Contact 1: Dave
11:55 AM 05/26/2009	Dry Contact P1: High Water	Alarm	—	Contact 1: Dave
11:42 AM 05/26/2009	Battery Level: Battery	Low Alarm	—	Contact 2: Dave's Gsm
11:30 AM 05/26/2009	Battery Level: Battery	Low Alarm	—	Contact 2: Dave's Gsm
10:17 AM 05/26/2009	Battery Level: Battery	Low Alarm	—	Contact 2: Dave's Gsm

A full alarm history is available on the CELL682 website

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Input #	Name	Value	Alarm State	Min	Max
1	Water Level - ft	10	Normal	10	10
2	Chiller Temp	46.7	Normal	44.7	50.7
3	Chiller Temp	45.7	Normal	43.7	47.7
4	Pump Level - gal	28	Normal	24	34
5	Pump Flow - gpm	11	Normal	11	11
6	Chiller Power	128	Normal	128	128
7	Battery	13.36 V	Normal	12 V	13.58 V
8	Power	16.21 V	Normal	16.21 V	16.41 V

Status of all conditions are available anytime online





## Coverage:

The New Sensaphone SAT4D is designed to monitor a remote site no matter where it is located. Cellular coverage is getting better, but there are still many remote locations where cellular is not an option. The SAT4D uses direct satellite communications, which results in 100% coverage across the United States as well as many other countries.

## Power:

Not only does the SAT4D make your communication easy, but it also takes away your power source worries, too. The new SAT4D remote monitoring system requires no power at all. Mount it, connect your sensors, and walk away. The SAT4D includes an internal battery that will operate for at least 5 years without power. Place it anywhere, and only come back every five years to change the battery.

## Alarm Inputs:

The Sensaphone SAT4D can monitor up to 4 dry contact inputs for alarms. Each input can be either normally open or normally closed. User programmable recognitions times can be set individually for each input.

## Alarm Notification:

When an alarm occurs on any of the input, the SAT4D sends a message via satellite that is delivered to the Sensaphone servers. From there, up to eight custom voice phone calls are made to notify the appropriate personnel of the alarm. Up to six e-mail messages can also be sent for alarms.

## Web Interface:

All communications to and from the SAT4D product go through the Sensaphone SAT4D server. You can log in to your account on the SAT4D website at any time to check the latest status, to check previous alarm events, or to make programming changes.

## Automatic Status Updates:

In addition to sending out alarm events, the SAT4D will automatically send two status reports per day to the website. The history of these 12 hour snapshots remain available on the SAT4D server for future reference.

## Call in for status:

Need to check the status and not near a computer with Internet access? No problem. With the Sensaphone SAT4D, you can just pick up your phone and call the server using a toll free number to listen to a voice status.



The SAT4D will transmit its status twice a day to the website. The status includes the present alarm condition of each input and the GPS location.

PRODUCT FEATURE COMPARISON



Communications

Wireless Technology . . . . .	GSM Cellular . . . . .	Satellite
Wireless Coverage . . . . .	90+% . . . . .	100%

Inputs

Analog 4-20mA Inputs . . . . .	6 . . . . .	0
Contact Closure Inputs. . . . .	8 . . . . .	4
Relay Outputs. . . . .	2 . . . . .	0
Run Time Accumulation . . . . .	Yes . . . . .	No
Temperature Measurement . . . . .	Yes . . . . .	No

Alarm Delivery

E-mail Alarm Notification . . . . .	Yes . . . . .	Yes
Text Message Alarm Notification . . . . .	Yes . . . . .	Yes
Voice Phone Call Alarm Notification . . . . .	Yes . . . . .	Yes
Total Alarm Notification Destinations. . . . .	24. . . . .	14

Other Details

Programming Access. . . . .	Website . . . . .	Website
Power Requirement . . . . .	12VDC . . . . .	Internal 5 Year Battery
Duplex Pump Control Logic . . . . .	Yes . . . . .	No
Peer to Peer Control Logic . . . . .	Yes . . . . .	No
Enclosure Rating. . . . .	NEMA4X . . . . .	NEMA4X
Operating Conditions . . . . .	-30° to 60°C . . . . .	-30° to 60°C
	-22°F to 140°F	-22°F to 140°F

Ordering Information

Hardware Part Number. . . . .	FGD-CELL682-CD . . . . .	FGD-SAT4D
One Year Communication Service . . . . .	FGD-CELL1Y . . . . .	FGD-SAT1Y
Pole Mount Kit . . . . .	N/A. . . . .	FGD-SAT4D-PKIT

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