Sensaphone WSG30 Features and Specifications **Powerful Wireless Battery** Backup Sensors Accept thirty different wireless Rest easy knowing that sensors from distances of up to even if the power goes 300' away (or farther if there out, the WSG30 will keep is a line of site or are other monitoring. sensors in between). A list of popular sensors and accessories **LCD Display** is below. For a quick local check of WSG30 the sensor's status. WSG Keypad Use to scroll through the LCD display. **Ethernet** Receive an e-mail or text Power message when an alarm has Comes with a plug in power been detected. Or check the supply that also monitors status on the WSG30's web for power failures. page. **Web Services Industrial Automation** Communicate with an existing Program, adjust and monitor the status automation system using the of the sensors on a webpage the WSG30 Modbus protocol. creates. Compatible Sensors & Accessories Temperature SensorFGD-WSG30-TMP Dry Contact Interface.....FGD-WSG30-DRY **Temperature Sensor** Power Failure Sensor......FGD-WSG30-PWR w/ External Probe...... FGD-WSG30-TEX 4-20mA Interface..... FGD-WSG30-4-20

Ultra Low Temperature Sensor

w/ External Probe...........FGD-WSG30-TEX85

WSG Wireless Humidity SensorFGD-WSG30-HUM

4-20mA Interface.......FGD-WSG30-4-20

Spot Water Detection Sensor.....FGD-WSG30-SPOT

Zone Water Detection Sensor.....FGD-WSG30-ZONE

SENSAPHONE

Monitoring Solution

Web based monitoring with wireless sensors

WSG-30



Description

Introducing the new Sensaphone Wireless Sensor Gateway system. The WSG-30 is a unique wireless sensor monitoring system that can be used in more than one way. As a standalone system, it can monitor a variety of conditions from the wireless sensors and directly notify the appropriate personnel by sending e-mails and text messages.

The convenience of having wireless sensors allows you to move your

too expensive and/or inconvenient · When the monitoring environment is very dynamic with sensing needs changing often. · To transmit sensor information wirelessly to an existing HMI system.

Why choose the WSG-30?

·When running sensor wires is

Compatible with



The WSG-30 can also be used within an existing industrial automation system and communicate directly with existing HMI software using the Modbus protocol. Information from sensors and transducers can be sent wirelessly to the WSG-30 main unit and then into your automation software.

The WSG-30 is even smart enough to supply wireless sensor data to your existing automation software, and still independently send e-mail and text message alarm notifications on its own.

Wireless Sensors

sensors around while tracking down heat problems within a data center. The WSG-30 is perfect for monitoring refrigerators and freezers for food and medical

applications where running wires may be inconvenient or costly.

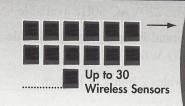


Up to 30 wireless sensors can be monitored by the WSG-30 in addition to automatic power failure alarm detection and diagnostic alarms. Battery backup is also built in.

Available Wireless Sensors:

- Temperature Humidity
- Dry Contact 4-20mA
- Zone Water Detection • Spot Water Detection
- Power Failure

Functional Diagram



Ethernet E-Mails **Text Messages** SNMP Traps

Modbus Web Page

Description

Part Number

Wireless Sensor Features:

- Up to 30 wireless sensors reporting back to the main unit.
- Sensors can be up to 300' away.
- Creates its own Mesh Network so that sensors can be used as repeaters and routers.
- The Wireless sensors can operate on standard AA batteries for up to 2 years.
- All sensors are supervised with their battery level reported and monitored.
- If any sensor has a low battery or drops offline, a diagnostic alarm is generated and users are contacted.
- One-year warranty

Alarm Notification:

- Eight User Profiles can be programmed with 4 contact methods for each one, for a total of 32 alarm notifications.
- Each contact method can be an e-mail or a text message.
- When used in a data center environment, alarms can also be sent directly to network management software using SNMP traps

Built In Alarms:

- Power Failure
- Low Backup Battery
- Sensor Diagnostics for low sensor battery or sensor not responding.

Advanced Scheduling and Selection:

- Each sensor can be programmed with a schedule so that it is only monitored for alarms when you need it.
- Even the alarm delivery to the users can be scheduled so that different people are notified for alarms depending on time of day and day of the week.
- In addition to the flexible scheduling options, there is also the ability to have different people notified for different alarms. So, only the people responsible for a particular issue will be the ones who are notified.



The WSG-30's built-in web server provides programming, configuration, and access to current status. Even alarm history and data logging can be easily accessed.

Interfacing

Web Page

The WSG-30 includes a built-in web server. Just browse to its web page for all programming, configuration, and access to current status. Even alarm history and data logging can be easily accessed through the web interface.

Local Display

For a quick local check of the sensors, there is a 4 line display and keypad interface right on the front. The status of all sensors can be easily and quickly viewed at anytime without the need for a computer.

Modbus Protocol

Support for the Modbus protocol is included in the WSG-30. Third party automation software can be used to connect and pull data for all sensor values in real time.

SNMP Management

remote management using the SNMP protocol. All status values as well as programming parameters can be accessed using Get and Set commands from standard network management software.

The WSG-30 also allows full

Data Logging:

- A minimum of 67,000 time stamped records can be stored inside the WSG-30 to follow history and trends of the monitored conditions.
- Data log history can be accessed directly through the built-in web page, exported in a standard format, or interfaced using XML.

Battery Backup:

• The WSG-30 main unit includes an internal battery backup system that will power the device for up to two hours in case of a power failure.

SENSAPHONE

Monitoring Sensor

WSG30 Wireless Sensors

WSG Wireless

Room Temperature Sensor



Description

The WSG Wireless Temperature sensor is designed to work exclusively with the Sensaphone WSG30. This sensor includes a built-in radio transmitter and temperature element for monitoring temperature wherever the device is installed. The sensor comes with

two AA alkaline batteries which will power the sensor for up to two years. An optional plug-in power supply is available.

Specifications

Monitoring Temperature Range:

32° to 115°F 0° to 57°C

Accuracy: ±1°F

Battery Life: 2 years

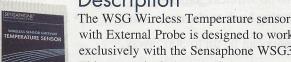
Range (Indoor/Urban):

Up to 300' (90m)

Power: (2) AA alkaline batteries and/or 5VDC (300mA) plug-in adapter

WSG Wireless Room Temperature Sensor FGD-WSG30-TMP

Temperature Sensor w/Probe



Description

with External Probe is designed to work exclusively with the Sensaphone WSG30. This sensor includes a built-in radio transmitter and a remote temperature probe so that temperature measurements can be made in a refrigerator, freezer or other harsh

environments. For temperatures below -20°F please use part number FGD-WSG30-TEX85.

Specifications

Monitoring Temperature Range:

-109° to 115°F -85° to 57°C

Accuracy: ±1°F

Battery Life: 2 years

Range (Indoor/Urban): Up to 300' (90m)

Power: (2) AA alkaline batteries and/or 5VDC (300mA) plug-in adapter

WSG Wireless Temperature Sensor

WSG Wireless Ultra Low Temperature Sensor w/External Probe & Teflon Cable FGD-WSG30-TEX85

Power Failure Sensor



Description

The WSG Wireless Power Failure sensor is designed to work exclusively with the Sensaphone WSG30. This sensor includes a built-in radio transmitter, two AA alkaline batteries and a wall plug in power supply.

The sensor will detect a loss of power at the outlet where the power supply is attached. The two AA alkaline batteries will power the sensor and allow it to transmit alarm information in the event that 120VAC power fails.

Specifications

Operatring Temperature Range:

32° to 122°F (0° to 50°C)

Battery Life: 2 years

Range (Indoor/Urban): Up to 300' (90m)

Power: (2) AA alkaline batteries and 5VDC (300mA) plug-in adapter

Humidity Sensor



Description

The WSG Wireless Humidity Sensor is designed to work exclusively with the Sensaphone WSG30. This sensor includes a built-in radio transmitter and humidity sensor element for monitoring humidity wherever the device is installed. The sensor comes with two

AA alkaline batteries which will power the sensor for up to two years. An optional plug-in power supply is also available. The batteries then become a backup if main AC power fails.

Specifications

Operating Temperature Range:

32° to 122°F (0° to 50°C)

Accuracy: ±3% from 20-80% (±5% otherwise)

Battery Life: 2 years

Range (Indoor/Urban): Up to 300' (90m)

Power: (2) AA alkaline batteries and/or 5VDC (300mA) plug-in adapter

SENSAPHONE

Monitoring Sensor

WSG30 Wireless Sensors

WSG Wireless

Dry Contact Bridge



Description

The WSG Wireless Dry Contact Bridge is designed to work exclusively with the Sensaphone WSG30. This sensor includes a built-in radio transmitter and input terminals for connecting to any normally-open or normally

closed output. (Use of this device with solid-state outputs is not recommended.) The sensor comes with two AA alkaline batteries which will power the sensor for up to two years. An optional plug-in power supply is also available.

Specifications

Operating Temperature Range:

32° to 122°F (0° to 50°C)

Battery Life: 2 years

Range (Indoor/Urban):

Up to 300' (90m)

Power: (2) AA alkaline batteries and/or 5VDC (300mA) plug-in adapter

WSG Wireless Dry Contact Bridge......FGD-WSG30-DRY

4-20mA Bridge



Description

The WSG30 Wireless 4-20mA bridge is designed to work exclusively with the Sensaphone WSG30. This sensor includes a built-in radio transmitter, 4-20mA input and a 24V loop power supply. The sensor can be used to monitor the output of any 4-20mA transducer.

The sensor comes with a plug-in power supply and three AA alkaline batteries which will power the sensor for several hours if main AC power fails.

Specifications

Operating Temperature Range:

32° to 122°F (0° to 50°C)

Accuracy: ±1%

Battery Life: 2 years

Range (Indoor/Urban):

Up to 300' (90m)

Power: (3) AA alkaline batteries and 5VDC (300mA) plug-in adapter

Spot Water Detection Sensor



Description

The WSG30 Wireless Spot Water Detection Sensor is designed to work

exclusively with the Sensaphone WSG30. This sensor includes a built-in radio transmitter and water sensing probes for monitoring for the presence of water at a particular location. The sensor comes with three AA alkaline batteries which will power the sensor for up to two years..

Specifications

Operating Temperature

32° to 122°F (0° to 50°C)

Range (Indoor/Urban): Up to 300' (90m)

Power: (3) AA alkaline batteries

Battery Life: 2 years

Zone Water Detection Sensor



Description

WSG Wireless 4-20mA Bridge FGD-WSG30-4-20

The WSG30 Wireless Zone Water Detection Sensor is designed to work with the

Power: (3) AA alkaline

Battery Life: 2 years

batteries

WSG30. This sensor includes a built-in radio transmitter and 10 feet of water sensing cable for monitoring for the presence of water in a particular area. The size of the monitored area can be extended by attaching up to 9 additional lengths of Water Rope (FGD-0063) to the end of the included Water Rope. The sensor comes with three AA alkaline batteries which will power the sensor for up to two years.

Specifications

Operating Temperature

32° to 122°F (0° to 50°C)

Range (Indoor/Urban):

Up to 100' (30m)

WSG Wireless Zone

Water Detection Sensor FGD-WSG30-ZONE

WSG Wireless Spot