



## **GENSERV, INC.**

Dean Byrd, CFO

### **CONTACT**

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Hello!

I would like to take this opportunity to introduce GenServ, Inc. and its remote generator monitoring capabilities and other optional services.

When the power goes out it is critical your generator works. Remote monitoring helps to make sure that the emergency power system is ready for the next power failure. Monitoring the system 24/7 tracks the current status of the emergency power system, monitors the exercise cycles and provides instant alerts to problems. If a problem occurs, we will alert you immediately to provide a fast, proactive service response. We can provide daily, weekly and/or monthly automated activity reports, which are sent directly to you via email. Remote generator monitoring is like having a technician watching your generator 24/7, ensuring your emergency power generator will perform when needed. Our top priority is to provide you with the highest level of service possible and to do everything that we can to improve the reliability of your emergency power systems.

In addition to our monitoring service, GenServ can provide generator service, yearly maintenance plans, automated fuel polishing, and emergency response plans and service. GenServ technicians are highly trained in all aspects of power generation.

Monitoring a generator helps decrease the overall cost of ownership. Small problems can be fixed before they become big problems, thereby reducing major repair costs. The most significant cost is if the generator does not work during a power outage!

If you are interested in discussing our system and plans, please contact me. I look forward to working with you to enhance your power generation protection and readiness. Thank you for your consideration.

Best Regards,

Dean Byrd, CFO

Attachments: Brochure



# GET THE MOST OUT OF YOUR GENERATOR

## PROTECT YOUR POWER WITH REMOTE MONITORING

### Protect Your Investment with Remote Generator Monitoring

Remote Generator Monitoring is like having a technician watching your generator 24/7, ensuring your emergency power generator will do its job when needed!



### BENEFITS OF MONITORING

What would happen if your generator did not work? The consequences could be severe. Looking at your generator every second of the day significantly reduces the chances of the system not working as it should. Some of the key benefits you receive from implementing this level of service are:



#### Improved Reliability

The definition of reliability in our business is simply this...The power goes out and the emergency power system works. Monitoring the system 24/7 tracks the current status of the emergency power system, monitors the exercise cycles and provides instant alerts to problems.



#### Confidence and Peace of Mind

Know with confidence the system is ready for the next power outage and will work when needed.



#### Fast, Proactive Service Response

By receiving alarm notifications via email and/or text, our system will alert you and our dispatch team to any generator fault conditions allowing us to respond more quickly to your needs and to minimize down time. Alerts are sent to as many people as you like.



#### Reporting

Monitored events are time & date stamped and can provide daily, weekly and/or monthly automated activity reports, sent directly to you via email.



#### User Portal

You receive your very own user log in to monitor and track your equipment at any time. We will take care of the monitoring and reporting for you and you will have complete access to monitor and track your equipment and data.



#### Decreased Cost of Ownership

Monitoring a generator actually helps decrease the overall cost of ownership. This may seem contradictory. However, small problems can be fixed before they become big problems, thereby reducing major repair costs. The most significant cost is if the generator does not work during a power outage!



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# MONITORING YOUR EMERGENCY POWER SYSTEM IS EASY WITH OUR VARIETY OF OPTIONS & AFFORDABLE PRICING.

## HOW IT WORKS

Generator remote monitoring includes two basic components, the monitoring system connected to your equipment and the user interface software platform.



### Monitoring Equipment

We install an electronic monitoring system that connects directly to your generator to track key activities and events including run times, missed exercises, and fault events that may keep your generator from operating during an outage. Some of the key features include:

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A variety of device solutions from basic event monitoring to advanced data collection.

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Solutions for permanently installed systems or mobile generators with GPS tracking.

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Ultra-secure and reliable cellular connectivity that transports the data to our platform.

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Lifetime warranty of the monitoring equipment!



### User Interface Software

Our monitoring platform provides you and our service support team with instant access to the status of your equipment as well as alert notifications via email, text and even voice call. Some of the other key features include:

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Web-based software accessible anywhere on any mobile device or desktop computer.

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Real time status including mapping and historical event logging.

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Standard and custom reports automatically sent via email daily, weekly and/or monthly.

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Real time map showing current status of all generators

## AFFORDABLE GENERATOR MONITORING

Your emergency power system is one of the most critical systems that you have and it is imperative that it works every time it is needed. With advancements in technology, our generator monitoring system is very affordable and an easy decision to add this service to your maintenance plan.



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*Our goal is to always provide you with the highest level of service possible and to do everything that we can to improve the reliability of your emergency power system.*

# GS400

## Stationary Generator Monitoring System



The **GS400** generator monitoring system is a comprehensive solution for monitoring all of the major alarm points for any indoor or outdoor standby generator application. This monitor includes a power harness, custom I/O harness, has seven (7) additional programmable bias inputs and three (3) ADC inputs. The **GS400** digital inputs are used with generator controller outputs and accessory kits. When configured with the appropriate accessory kits, the **GS400** can log the full sequence of operation of the emergency power system.



### Standard Unit Includes

- **GS400** Monitor – Fully Configured & Scripted
- External Cellular & GPS Antenna
- Power Harness and Custom I/O Connection Harness
- Internal 1Ah Lithium Ion Backup Battery
- 7 Digital Inputs
- 3 ADC Inputs
- 5 Relay Driver Outputs
- 7-32VDC Power
- Cellular Carrier Activation
- Over-The-Air Unit Configuration and Updates
- Generator On (Running)/Off (Stopped)
- Engine Battery Voltage Monitor with Low Battery Alarm
- Generator Failed to Exercise (Missed Exercise Cycle)
- Extended Run Time Alerts - Generator Running for 4, 8, 12 & 24 Hours
- Remote Start Relay Driver Output (Customer Furnished Relay)

### Input Configuration

The **GS Series** of monitoring systems are **UNIVERSAL** to all brands, models, ages, and sizes and provide extensive flexibility when selecting what conditions to monitor. Typically, there are relay outputs available on the generator, some may even be programmable. The **GS Series** of monitoring systems allow you to cost effectively utilize available output contacts on the generator to monitor critical alarms and conditions.

All **GS Series** monitoring systems include a “Generator On/Off” engine run signal and a battery voltage monitor with low battery alarm. The **GS Series** monitors also log the exercise cycle, send an alert if the generator has “Failed to Exercise,” and provide an alert if the generator has been running for an extended period of time.

The **GS400** monitoring system includes **seven (7)** additional digital inputs that can be used to monitor any condition that is available from the generator outputs or from any of the optional accessory kits.

### User Interface: Power Link



Power Link is the most versatile and comprehensive user interface on the market. It is designed for generator service organizations to monitor and track customer equipment and service technicians all in one place. All monitoring systems include a personalized application portal and provide extensive, customizable alerts and reports.

# GS400

## Stationary Generator Monitoring System



### Digital Inputs (7 Available)

The monitor programming is completely configurable and based on the inputs selected. When utilizing available output contacts on the generator, the monitoring system is able to be configured for those alarms and conditions. There are also optional accessory kits available that can be used to sense the availability of **Utility Power Voltage** (Utility Power On/Off), **Generator Output Voltage** (Generator Breaker Open/Closed) and **Generator Current** (On Generator Power).

The **GS400** digital inputs are programmable with a high or low bias and can be used with any output contact available on the generator controller.

### Optional: Utility Voltage Sensing Kit

Two types of kits are offered for Utility Voltage Sensing to log and report the events of "Utility Power On/Off." The PTK-UVD kit is a voltage detection sensor suitable for any AC voltage and connects on to a conductor to determine if AC voltage is present or not. The PTK-UVR kits include an AC voltage sensing relay and connection harness and come in voltage configurations of 120V, 208V, 240V, and 277V.

### Optional: Generator Voltage Sensing Kit

The PTK-GVD kit is a voltage detection sensor suitable for any AC voltage and connects on to an output conductor on the output side of the generator breaker to determine if AC voltage is present or not when the generator is running. This kit is used to log and report the event of "Generator Breaker Open." When used in conjunction with a Utility Voltage Sensing Kit, the condition of "Site Without Power" is reported when no voltage is present from either the Utility Source or Generator

### Optional: Generator Current Sensing Kit

The PTK-GCS kit includes a split core current sensing switch that clamps around one of the generator output conductors or a stator lead to determine if current is present from the generator. This kit is used to log and report the conditions of "On Generator Power" and "On Utility Power."

### ADC Inputs (3 Available)

The **GS400** has three (3) ADC inputs available for a variety of uses. ADC inputs are typically used for detecting a generator fault alarm when connected to an alarm horn or fault lamp when a common fault alarm output is not available or used with an external fuel level sensor when a low fuel level output contact is not available.

### GS400 Specifications

#### External Cellular & GPS Antenna

#### Custom Plug In 48" I/O Wiring Harness with Separate 96" Power Harness

**Temperature:** -30° to 75° C (operating)

**Humidity:** 95%RH @ 50° C non-condensing

**Shock and Vibration:** U.S. Military Standards 202G and 810F, SAE J1455

**EMC/EMI:** SAE J1113

**Operating Voltage:** 7-32 VDC

**Dimensions:** 4.3 x 3.2 x 0.86", (110 x 81 x 22mm)

**Weight:** 4 oz, (113 g)

#### Comprehensive I/O:

- Digital Inputs: 7 programmable bias
- Digital Outputs: 3 open collector (150 mA)
- Analog Inputs: 3 external ADC and 1 internal VCC monitor (battery voltage monitor)

**Status LEDs:** GPS and cellular

**Mount:** Screw Mounting Bracket, Tie-Wrap, Velcro or Adhesive



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