



**SELF MONITORING SYSTEMS**  
**FREEDOM ELECTRICAL**  
**CONTRACTING, INC.**

Specifications and Activation form

**Contact Information**

**Tyler Self**

**Tyler@Freedomec.com**

**(904) 761-4930**

Unit Location		Example: City Hall
Account Name / Owner		Example: City Of Jacksonville
Primary Username (Last,First)		Example: Doe, John
Primary User Email		Example: Johndoe@abc.com
Primary User Mobile Number		Example: 904-123-4567
Billing Address		Example: 0000Water Street
Billing City, State, Zip		Example: Jacksonville, FL 32210
Billing (Last, First Name)		Example: Doe, John
Billing Phone Number		Example: 904-000-0000
Billing Email		Example: Johndoe@abc.com

Please fill in the columns accordingly. There is a maximum of 10 contacts for the unit to send alerts to. There must be a cell phone number and/or email associated with each contact to receive the alerts via text message.

**Who Should Use this Form?**

End users who will be accountable for the pump station monitoring and annual fee after the initial service period is up. Initial service agreements will start at the time of installation with service good through December 31<sup>st</sup> of the current year. **All billings are sent out every November for the \$260.00 annual service fee Due in December to ensure all services will be renewed by December 31<sup>st</sup> . Any delinquent payments will result in termination of service.**

**Where to send this form?**

Tyler Self – (904) 761-4930 [Tyler@Freedomec.com](mailto:Tyler@Freedomec.com)

SERVICE GOOD ON UNIT THROUGH – START DATE: \_\_\_\_\_ END DATE: \_\_\_\_\_  
UNIT SOLD ON INVOICE # \_\_\_\_\_

**Please fill out list with cell phone number and emails to receive alerts**

**User emails**

**Cell Phone Numbers**

1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	

## SELF MONITORING SYSTEMS SPECIFICATIONS AND KEY FEATURES



Self Monitoring Systems is a cellular/web-based wireless remote monitoring system. With a total of 7 inputs that utilizes dry contacts. It sends real time alerts via text message/email so you know if your equipment, pump station control panel, portable equipment, generator, bypass pumps or other machinery is experiencing any issues.

Easy 24/7 access to your system via the customer portal login link on [Freedomec.com](http://Freedomec.com) from any cellphone, computer, or tablet. Units belong to customer once purchased. No long-term contracts other than the \$260 annual service fee which is required for operation.

The system consists of:

The RCA-870 monitoring unit with G.F.C.I. outlet and terminal strips for wire connections

Durable 4X enclosure to protect interior components

120V, 24V or 12V relays to accommodate and panel

There are standard alarms set for the Self Monitoring Systems, but any of the 7 inputs or alerts can be modified to fit your needs on how the customer wants to name the alarms.

The SELF MONITORING SYSTEMS provides a website to deliver information from each piece of equipment or pump station

Automatically reports critical information via text/email including the following:

GPS Location for mapping and tracking purposes:

- Loss / restoral of utility power – Internally built into unit
- Pump 1 breaker fail
- Pump 2 breaker fail
- Pump 1 contactor fail
- Pump 2 contactor fail
- High level alarm (fault or normal)
- Phase reversal / undervoltage alarm -

- Control power fail
- Sends real time alert notifications via text and or email
- Real times updates and signals that can be pinged at anytime

#### VERSION 2.0 ALARMS/FUNCTIONS

- Loss / restoral of utility power – Internally built into unit
- Pump 1 breaker fail
- Pump 2 breaker fail
- Pump 1 contactor fail
- Pump 2 contactor fail
- High level alarm (fault or normal)
- Pump/engine 1 run time
- Pump/engine 2 run time
- Remote start output 1
- Remote start output 2
- Sends real time alert notifications via text and or email
- Real times updates and signals that can be pinged at anytime
- Plots graphs and tracks average run time data for equipment



Additional Key Features:

Communications via the Verizon Nationwide 4G CATM-1 Wireless Network.

Power 110-220 VAC @ 50 mA

Power consumption 70 mA @ 12 volts DC

**Built in battery back-up sustainable for 6 + hours**

Operating temperature -32 deg C + 60 deg C

Storage temperature -45 deg C + 85 deg C

- This monitoring unit should be installed at the pump station or piece of equipment by a qualified technician or electrician from Freedom Electrical Contracting, Inc.
- This monitoring unit will provide GPS for pump station location.
- The monitoring unit will communicate each day regardless of the pump station activity with “The Daily Heartbeat Message” for a check in. Heartbeat alert is sent out every 12 hours
- The Self Monitoring Systems unit will transmit a message for any of the previously described faults as they occur.
- The messages are collected on the server, which is in a secure facility. The Self Monitoring Systems information is available to users via the internet. Pump station data is retained for a minimum of 12 months. Online data sharing is also available via the web services.