



Department of Environmental Protection

2600 Blair Stone Road ♦ Tallahassee, Florida 32399-2400

DEP Form: 62-761.900(9)

Form Title: Storage Tank Equipment

Registration Form

Effective Date: July 2019

Incorporated in Rule 62-761.850, F.A.C.

Storage Tank System Equipment Registration Form

Fill out completely

General Information

Company Name: Franklin Electric - Fueling Systems

Contact Name: Brad Fawcett / Jason Garrett

Company Address: 3760 Marsh Road

City, State: Madison, WI Zip: 53718

E-mail: bradley.fawcett@fele.com

Contact Number: 608-838-5650

Product Name: Remote Alarm and Acknowledge

Model Number(s): TS-RA1, TS-RA2, TS-RK

Product Type: UST/Overfill Protection

Rule(s) citation that registration is being requested within Chapter 62-761 (UST), and/or 62-762 (AST),
62-761.500, 62-762.501 F.A.C.

F.A.C.: Write a brief description of equipment registration request including product limitations:

The TS-RA1 and TS-RA2 are remote audible and visible alarm units for use with Franklin Fueling Systems Automatic Tank Gauges. The unit may be used as an overfill alarm when required by regulations, or as a general purpose remote alarm annunciator. The TS-RA2 is a high intensity version for areas with high background noise. The TS-RK is a remote alarm acknowledge unit for use with the TS-RA1 and TS-RA2 that allows user to silence remote alarm at the point of installation.

Information Checklist (Choose Yes, No, or N/A - Not Applicable):

1. Third-party Certification by a Nationally Recognized Testing Laboratory? (Required) ☒
2. Documentation of third-party evaluation that the equipment meets DEP Rules? ☒
3. Documents included about the qualifications of the Nationally Recognized Testing Laboratory? ☒
4. Technical information and drawings included? ☒
5. Installation instructions included? ☒
6. Annual Operability Testing Requirements (Rules 62-761.500, 62-762.501, & 62-762.502 F.A.C.)? ☒
7. Integrity Testing Requirements (Rules 62-761.700, 62-762.701, & 62-762.702, F.A.C.)? ☒
8. Compatible with fuel blends containing >10% ethanol or >20% biodiesel? ☒
9. Has the product been approved or registered in other countries or states? (If so provide list) ☐
10. Any requirements for company-certified installers or trainers? ☒
11. Was this product(s) previously approved or registered by the Department? If yes, EQ- 898 ☒
12. Any changes or modifications to the equipment since the last submittal to DEP? ☐

Yes	No	N/A
☒	☐	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐
☐	☒	☐
☒	☐	☐
☒	☐	☐
☐	☒	☐

Document Information: Provide supporting documents indicated as "Yes" above including this form via email to Tanknotify@floridadep.gov, or documents can be sent to FDEP, Division of Waste Management, 2600 Blair Stone Road, MS 4560, Tallahassee, FL 32399.

Write a brief description of equipment installation and performance in the U.S.:

Installation and programming of the TS-RA1, TS-RA2, and the TS-RK requires a Franklin Fueling Systems certified technician and should be performed in accordance with any local, state, or federal regulations. The mounting location of TS-RA1, TS-RA2, TS-RK units should be based on: cable run length, ease of conduit routing, alarm light visibility, alarm horn audible range limitations, and the distance away from hazardous areas. The TS-RA1 operates at 85 dB at 10 feet and the TS-RA2 operates at 75 to 99 dB at 10 feet.

Equipment Registration Certification:

To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.

Brad Fawcett - Product Certification Engineer

Printed Name and Title

Fawcett, Bradley

Signature (right click to sign)

Digitally signed by Fawcett, Bradley
Date: 2022.12.22 09:49:57 -06'00'

12/22/2022

Date

For Department Use Only:

Date Application Received: 02/15/2023

Application complete:

Yes: ☒ No: ☐

EQ- 898

Date of complete or incomplete letter sent: 02/28/2023

Date Equipment Requires Renewal: 2/28/2028

Storage tank system equipment requires renewal every 5 years in accordance with subsection 62-761.850(2), F.A.C.



Franklin Fueling Systems

TS-RA1, TS-RA2 and TS-RK Tank Overfill Alarms

Installation Guide

franklinfueling.com

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Tel: Mex 001 800 738 7610 • Tel: DE +49 6571 105 308 • Tel: CN +86 10 8565 4566

Important Safety Messages

FFS equipment is designed to be installed in association with volatile hydrocarbon liquids such as gasoline and diesel fuel. Installing or working on this equipment means working in an environment in which these highly flammable liquids may be present. Working in such a hazardous environment presents a risk of severe injury or death if these instructions and standard industry practices are not followed. Read and follow all instructions thoroughly before installing or working on this, or any other related, equipment. As you read this guide, please be aware of the following symbols and their meanings:



Warning

This symbol identifies a warning. A warning sign will appear in the text of this document when a potentially hazardous situation may arise if the instructions that follow are not adhered to closely. A potentially hazardous situation may involve the possibility of severe bodily harm or even death.



Caution

This is a caution symbol. A caution sign will appear in the text of this document when a potentially hazardous environmental situation may arise if the instructions that follow are not adhered to closely. A potentially hazardous environmental situation may involve the leakage of fuel from equipment that could severely harm the environment.



Danger

This symbol identifies an electrical danger. An electrical danger sign will appear in the text of this document when a potentially hazardous situation involving large amounts of electricity may arise if the instructions that follow are not adhered to closely. A potentially hazardous situation may involve the possibility of electrocution, severe bodily harm, or even death.



Warning

Follow all applicable codes governing the installation and servicing of this product and the entire system. Always lock out and tag electrical circuit breakers while installing or servicing this equipment and any related equipment. A potentially lethal electrical shock hazard and the possibility of an explosion or fire from a spark can result if the electrical circuit breakers are accidentally turned on during installation or servicing. Please refer to the *Installation and Owner's Manual* for this equipment, and the appropriate documentation for any other related equipment, for complete installation and safety information.



Warning

Follow all federal, state and local laws governing the installation of this product and its associated systems. When no other regulations apply, follow NFPA codes 30, 30A and 70 from the National Fire Protection Association. Failure to follow these codes could result in severe injury, death, serious property damage and/or environmental contamination.



Warning

When the Fuel Management System system is used to monitor tanks containing gasoline or other flammable substances, you may create an explosion hazard if you do not follow the requirements in this manual carefully.



Warning

All wiring from probes or sensors to the console must be run in conduit separate from all other wiring. Failure to do so will create an explosion hazard.

Product Overview and Theory of Operation

The TS-RA1, and TS-RA2 are remote audible and visual alarm units that are used with Fuel Management System consoles. The TS-RA1, TS-RA2, and the TS-RK **Tank Overfill Alarm and Alarm Acknowledge** units are mounted near the tank filling site. If the tank product level reaches the FMS overfill alarm setpoint, then the Tank Overfill Alarm will become active. An active Tank Overfill Alarm alerts the tank filling attendant to immediately stop the filling operation before a spill occurs. The TS-RK is an optional remote alarm acknowledge unit. This unit gives the tank filling attendant the means to silence a Tank Overfill Alarm at the filling site. The TS-RK is required when a TS-RA1 or TS-RA2 is connected to a T5 series Fuel Management System console or a Colibri Automatic Tank Monitor. When in an alarm condition, depressing the acknowledge button on the TS-RK will silence the Tank Overfill Alarm at the tank filling site.

Alarm Specifications

The TS-RA1 is a standard intensity, remote alarm device that has a useful signal range up to 50 feet.

Ratings

Input Power	115 VAC (96 to 132vac), 60Hz @ 0.125 amps Maximum
Operating Temperature Range	–31 to 150 °F
Humidity Range	Up to 95% humidity
Signal outputs	Visual (low intensity incandescent lamp) & audio tone (85 dB @ 10 feet)

The **TS-RA2** is alarm device that has a strobe-light, and eight user-selectable output tones with two user-selectable sound intensities. In the high-intensity mode, the TS-RA2 has a useful signal range up to 200 feet.

Ratings

Input Power	115 VAC (96 to 132vac), 60Hz @ 0.125 amps Maximum
Operating Temperature Range	–31 to 150 °F
Humidity Range	Up to 95% humidity
Signal outputs	Visual strobe (15 Candela), and audio tone (99dB to 75 dB @ 10 feet).

When properly installed, wired, and programmed, this alarm system will help prevent dangerous fuel spills, environmental contamination, and cleanup costs.

Installation

Overview

The mounting location of TS-RA1, TS-RA2, TS-RK units should be based on: cable run length, ease of conduit routing, alarm light visibility, alarm horn audible range limitations, and the distance away from hazardous areas. In addition, the following limitations and requirements must be met.

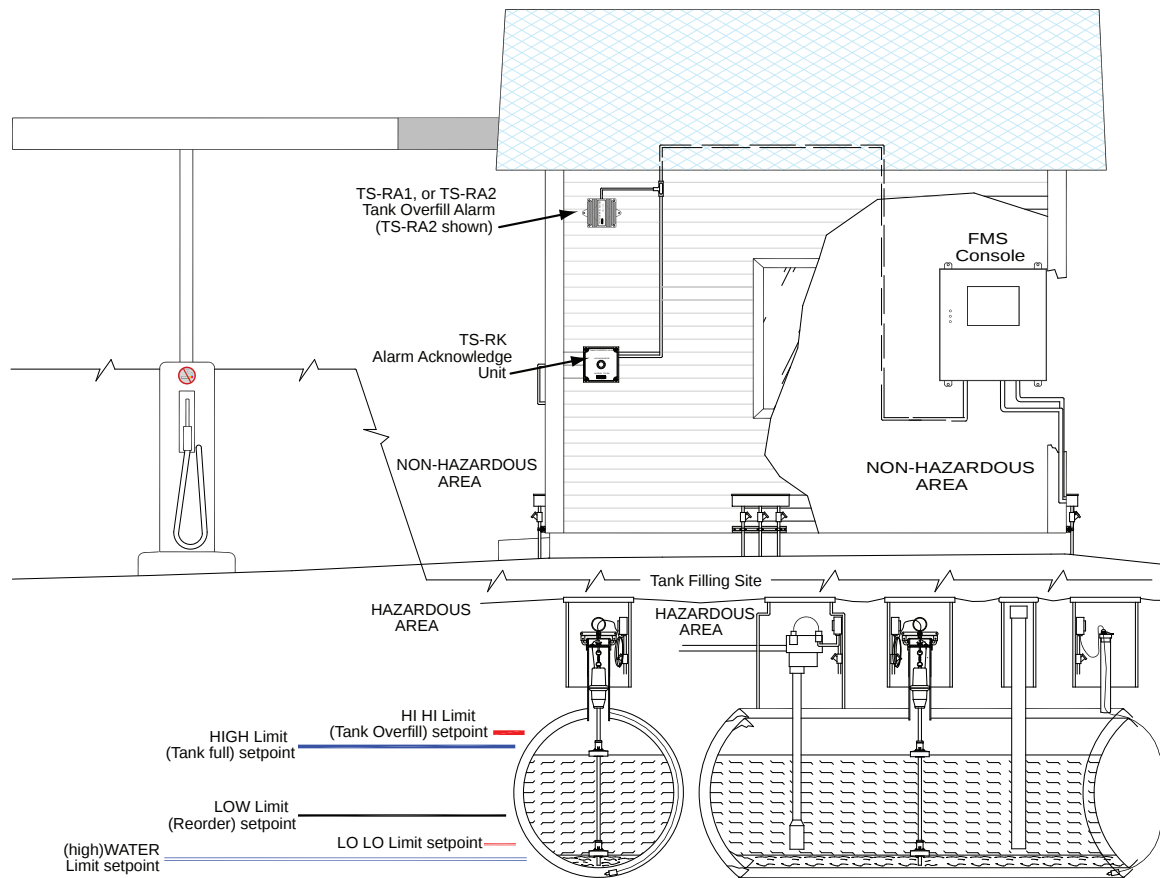


Figure 1: TS-RA and TS-RK Installation Overview

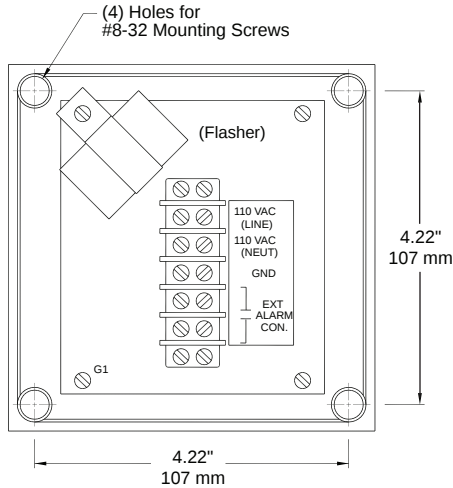
- The location of the Tank Overfill Alarm and Alarm Acknowledge unit enclosures must be less than 1000 feet away from the 120 VAC electrical power (source) panel.
- The TS-RA1, or TS-RA2 Tank Overfill Alarm unit should be mounted near the fuel tank filling area.
- The alarm light must be visible and the alarm horn must be audible at the fuel tank filling area.
- These units should be mounted in a protected location that minimizes exposure to direct sunlight, snow and rain.
- The TS-RK Tank Overfill Alarm Acknowledge unit should be accessible to the tank filling attendant. Access to the TS-RK from the filling area must be clear with no obstructions.

Warning  **DO NOT install the Tank Overfill Alarm, or Alarm Acknowledge units in a volatile, combustible, or explosive atmosphere. Failure to do so may create an explosion hazard.**

Warning  **Run wiring from the Tank Sentinel console to the TS-RA1/TS-RA2 Tank Overfill Alarm, and TS-RK Alarm Acknowledge units in separate conduit apart from any other wiring. All conduits must enter through supplied non-intrinsically safe enclosure knockouts only. Failure to do so may create an explosion hazard.**

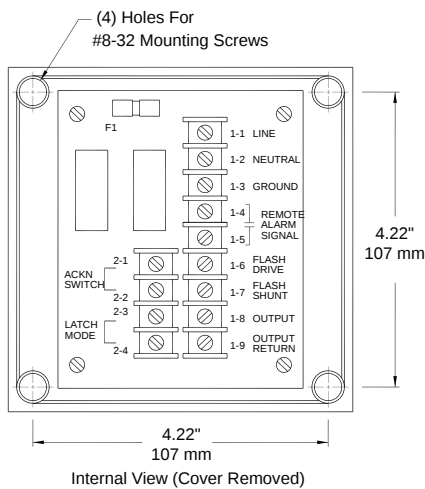
Mounting the Units

- Mount the TS-RA1, and/or TS-RK units through the four (4) mounting holes provided in the case under the front cover.



Internal View (Cover Removed)

Figure 2: TS-RA1 Mounting Details



Internal View (Cover Removed)

Figure 3: TS-RK Mounting Details

- Mount the TS-RA2 unit through the two (2) mounting holes provided.

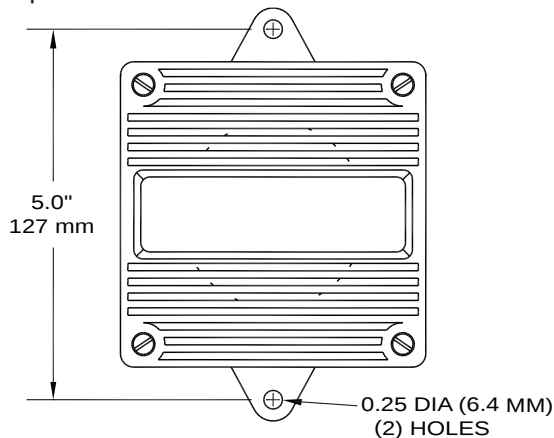


Figure 4: TS-RA2 Mounting Details

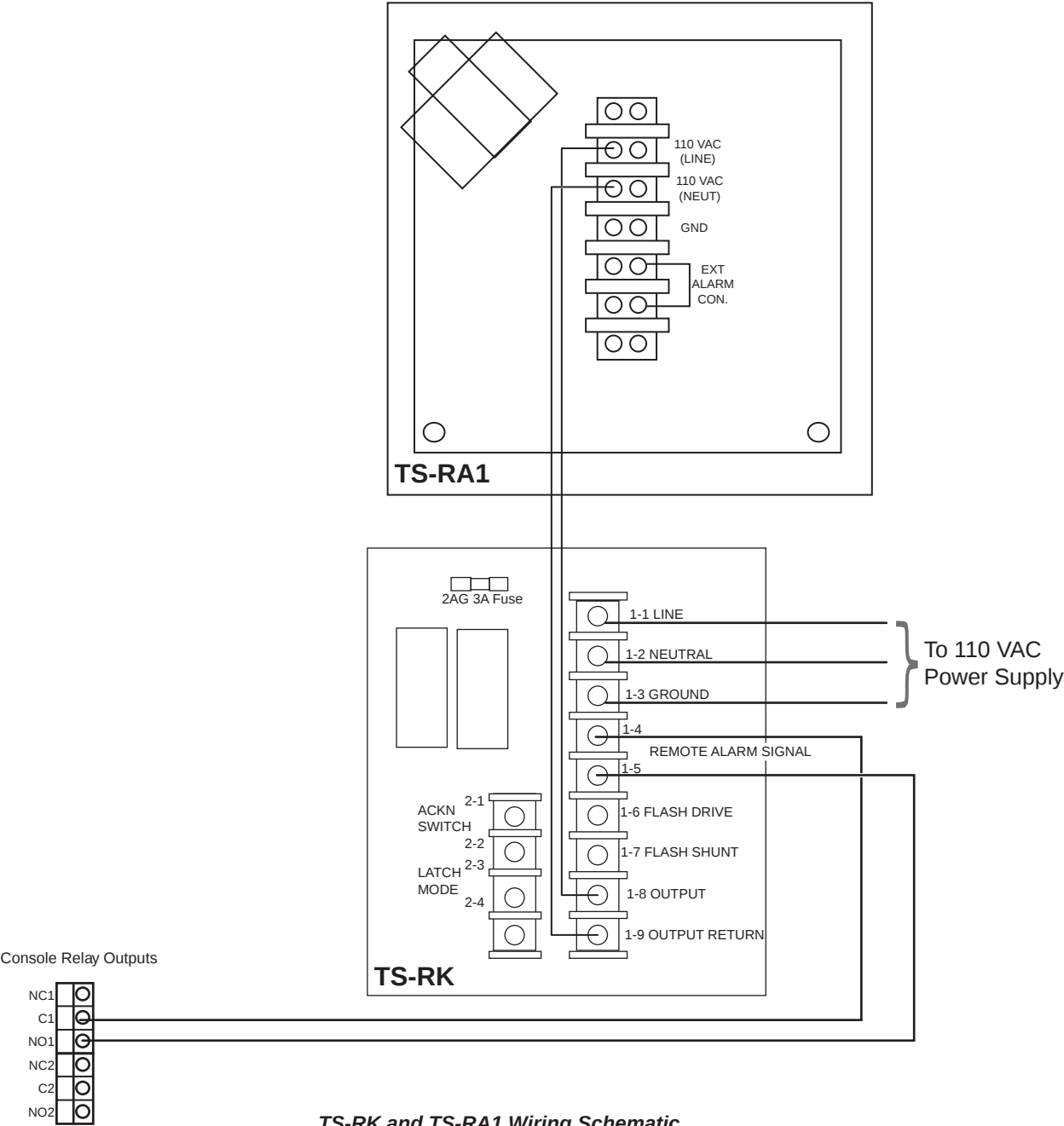
Wiring the Units

Materials Required

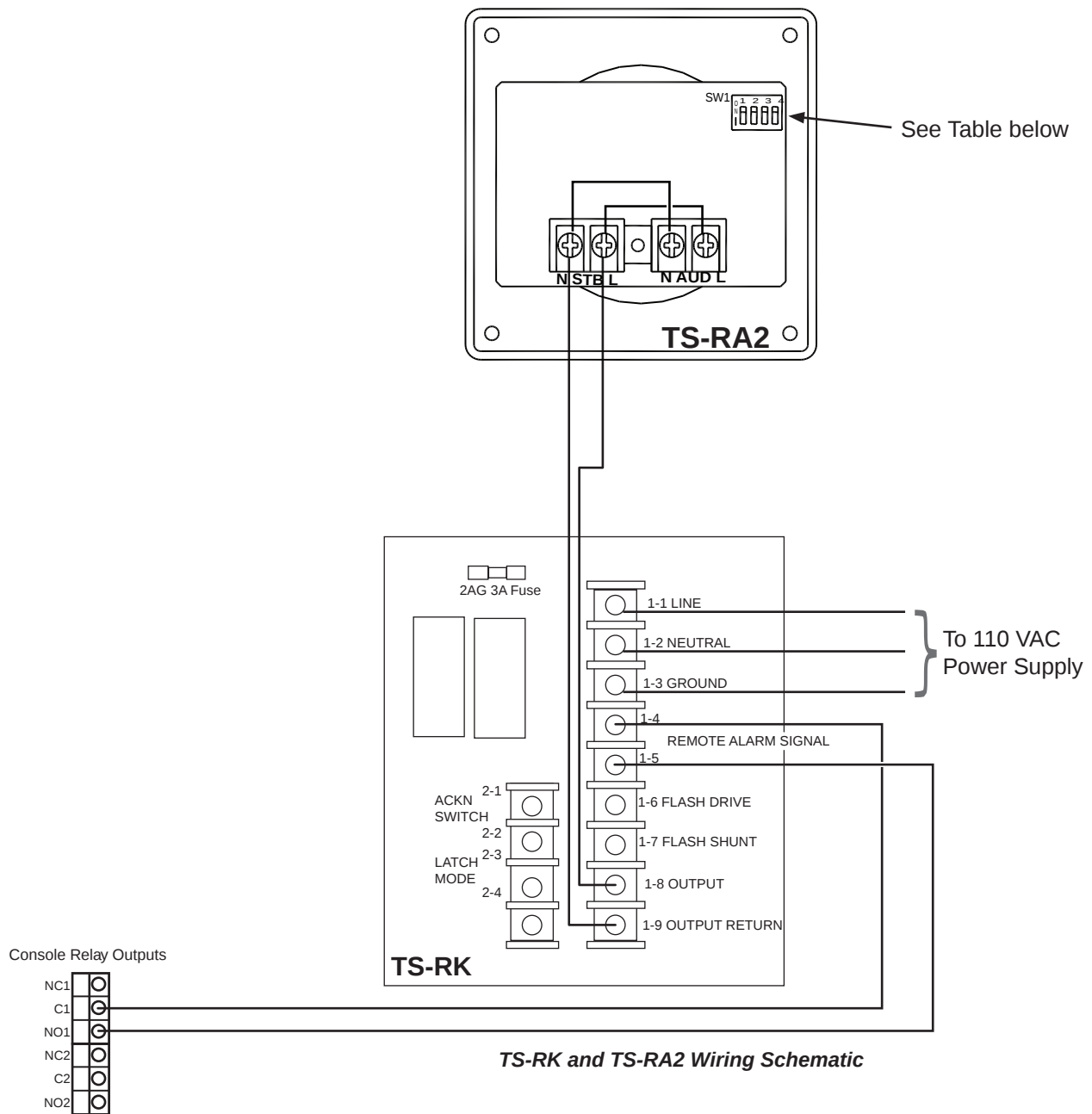
- Wire: 18 to 14 AWG, 300 Volt, type TFFN, THWN, or THHN (Note: THHN is not available in 18 AWG). Recommended insulation colors are black, white, green, and blue.
- Conduit: 1/2 inch, or 3/4 inch (the TS-RA2 has a 1/2 inch NPT for threaded conduit/fitting).
- Fittings: for conduit used, and conduit hold-down clamps.
- Sealant: waterproof conduit, fittings, fitting threads, and conduit accesses to the building.
- Fasteners: appropriate for the wall construction involved.

Refer to the schematics on the following page for connection information.

Schematics



TS-RK and TS-RA1 Wiring Schematic



TS-RA2 SW1 Switch Position Settings (factory settings are shown in bold italic)					
Sound Ouput Level	Position 1	Tone	Pos. 2	Pos. 3	Pos. 4
High dB	ON	Horn (continuous)	ON	ON	ON
Standard db	OFF	Bell	ON	OFF	ON
		March Time Horn	OFF	OFF	ON
		Code-3 Horn	ON	ON	OFF
		Code-3 Tone	OFF	ON	ON
		Slow Whoop	OFF	ON	OFF
		Siren	ON	OFF	OFF
		HI/LO	OFF	OFF	OFF

Setup and Operation

Set up the console so that the alarms operate properly:

1. Identify the relay that is being used to activate the overfill alarm equipment.
2. Navigate to the setup programming of that relay.
3. Confirm that the relay is programmed according to the following:
 - Name: Overfill Alarm Relay (or similar).
 - Enabled: Yes
 - Type: Alarm
 - Polarity: Normal
 - Logic: OR Logic
 - Physically Wired As: Normally Open
 - Number of inputs: 0

NOTE: If you have a legacy console, refer to the associated programming manuals for specific information.

4. Make sure the rule activates the overfill alarm equipment when a HIGH or HIGH HIGH tank alarm occurs. Go to the Rules section of programming:
 - Rule: Overfill Alarm Activate (or similar)
 - Name: Overfill Alarm Activate (or similar)
 - Enabled: Yes
 - Events
 - Event: Type Alarm Occurred
 - Category: FMS
 - Device: Tank
 - Device ID: Any
 - Code: High high product level

Actions

- Action Type: Relay
- Module: Power Supply Module
- Channel: Overfill Alarm Relay
- Action: One Pulse
- Duration: 2

NOTE: Legacy consoles that do not have the One Pulse option must incorporate two separate actions. One action to activate the relay, the second action to deactivate the relay.

NOTE: Verify that the code you select sounds the alarm at the correct volume/limit set for each tank.

NOTE: Verify that the code you select refers to the correct High High or High product threshold. You can confirm the units in which the High and High High thresholds are measured under Fuel Management Systems/High Product Limit.

5. Force the tank into the High or High High Alarm by manually raising the product float beyond the threshold and confirming the Overfill alarm sounds. Press the acknowledge button on the TS-RK to silence the alarm.

Testing the Alarm Wiring

Use the following procedure to verify that the tank Overfill Alarm is wired correctly. If the Setup and Operation procedure does not produce an Overfill Alarm, use the following procedure to verify that the issue is not caused by improper wiring.

1. Go to System/Diagnostic/Relay Status.
2. Select the Activate/Deactivate checkbox for the Overfill Alarm Relay (or a similar relay). The Active indicator becomes GREEN for the associated relay.
3. Make sure the Overfill Alarm is activated.
 - a. If the Overfill Alarm is activated, the wiring is correct. Clear the Overfill Alarm Relay checkbox to deactivate the relay. Press the acknowledgment button on the TS-RK to silence the alarm.
 - b. If the Overfill alarm is not activated, there is an issue with the wiring. Clear the Overfill Alarm Relay checkbox to deactivate the relay. Consult the TS-RA1, TS-RA2, TS-RK installation manual for information about proper wiring.

NOTE: If you have a legacy console, refer to the associated programming manuals for information about manually activating relays.



Franklin Fueling Systems

Ken Wilcox Associates, Inc.

1125 Valley Ridge Drive
Grain Valley, Missouri 64029
Voice (816) 443-2494, Fax (816) 443-2495
E-mail: cwilcox@kwaleak.com

June 15, 2018

To: Florida Department of Environmental Protection
Storage Tank Regulation Section

For: Florida Approval for INCON TS-RK Alarm Acknowledge Unit and TS-RA1/TS-RA2 Remote Audible/Visible Alarm Units.

Dear Sirs:

This letter is a summary of our review of the test results from the testing of the TS-RK alarm acknowledge unit as well as the TS-RA1 and TS-RA2 remote audible and visible alarm units made by INCON. The TS-RA1 and TS-RA2 alarm units are designed for use on Franklin Fueling Systems(FFS) Automatic Tank Gauges(ATG)*. The FFS ATG is programmed to trigger an alarm activation when the product level in an underground storage tank(UST) exceeds the safe fill level.

Test results

The 3 units tested include:

1. TS-RK – Remote Alarm Acknowledge Unit

This unit is designed to acknowledge that there is an alarm condition present which indicates the safe product level in a UST has been exceeded. There is a push button on this unit that silences the alarm when pushed. KWA has found that the TS-RK remote alarm acknowledge unit performs as designed without exception.

2. TS-RA1 – Remote Visible and Audible Alarm Unit

The TS-RA1 is a remote audible and visible alarm unit for use with FFS ATG's. The alarm unit is used as an overfill alarm as required by federal, state and local regulations. When the safe product level is exceeded in a UST, an audible and visible alarm is indicated on the TS-RA1 unit. KWA has tested and found that the TS-RA1 unit performs as designed without exception.

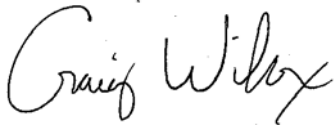
3. TS-RA2 – Remote Visible and Audible Alarm Unit

The TS-RA2 is a remote audible and visible alarm unit for use with FFS ATG's. The alarm unit is used as an overfill alarm as required by federal, state and local regulations. When the safe product level is exceeded in a UST, an audible and visible alarm is indicated on the TS-RA2 unit. KWA has tested and found that the TS-RA2 unit performs as designed without exception.

It is our conclusion that the TS-RK, TS-RA1 and TS-RA2 tested in our laboratory respond as indicated in the manufacturers description of each unit and should meet the requirements of the Florida Administrative Code Rule 62-761 Release Detection Methods.

Please feel free to contact us at (816) 443-2494 if you have any questions.

Sincerely,

A handwritten signature in black ink, reading "Craig Wilcox". The signature is written in a cursive, flowing style.

Craig D. Wilcox, President, Ken Wilcox Associates, Inc.

*Franklin Fueling Systems(FFS) Automatic Tank Gauges(ATG) include the following models. T1000, T1001, T750, T5, T550, T5000, CL6, EV0200, EVO400, EVO600, and EVO6000



Franklin Electric

Internet link to the Franklin Fueling Systems, FFS PRO University, online training website.

<https://university.ffspro.com/en/online-training/>

Prerequisite training:

Fueling System Safety: <https://university.ffspro.com/en/onlinetraining/safety/fueling-system-safety/safety-training-test/>

Product Specific Training:

FMS Installation – INCON Levels 1-4: <https://university.ffspro.com/en/online-training/>



Department of Environmental Protection

2600 Blair Stone Road ♦ Tallahassee, Florida 32399-2400

DEP Form: 62-761.900(9)

Form Title: Storage Tank Equipment

Registration Form

Effective Date: January 2017

Incorporated in Rule 62-761.850, F.A.C.

Storage Tank Equipment Registration Form

Fill out completely

General Information

Company Name: Franklin Fueling Systems

Contact Name: Sandy Adams

Company Address: 3760 Marsh Rd

City: Madison, WI.

Zip: 53718

E-mail: sadams@franklinfueling.com

Contact Number: 1-608-838-5668

Product Name: Remote Alarm and Acknowledge

Model Number(s): TS-RA1, TS-RA2, TS-RK

Product Type: OVERFILL

Rule(s) citation within Chapter 62-761, or 62-762, F.A.C. that registration is being requested: _____

62-761.500 , 62-762.501 F.A.C.

Write a brief description of equipment registration request including product limitations:

The TS-RA1 and TS-RA2 are remote audible and visible alarm units for use with Franklin Fueling Systems Automatic Tank Gauges. The unit may be used as an overfill alarm when required by regulations, or as a general purpose remote alarm annunciator. The TS-RA2 is a high intensity version that is designed for areas with high background noise. The TS-RK is a remote alarm acknowledge unit for use with the TS-RA1 and TS-RA2 that allows user to silence remote alarm at the point of installation. For use in conjunction with Franklin Fueling Systems TS, T550, T5000, T550evo, T5000evo, EVO200 and EVO400 ATG's.

Information Checklist

	Yes	No	N/A
1. Third-party Certification by a Nationally Recognized Testing Laboratory?	☒	☐	☐
2. Documentation of third-party evaluation that the equipment meets DEP Rules?	☒	☐	☐
3. Documents included about the qualifications of the Nationally Recognized Testing Laboratory?	☒	☐	☐
4. Installation instructions included?	☒	☐	☐
5. Technical information and drawings included?	☒	☐	☐
6. Annual Operability Testing Requirements (Rules 62-761.700, 62-762.701, & 62-762.702 F.A.C.)?	☒	☐	☐
7. Compatible with fuel blends containing >10% ethanol or >20% biodiesel?	☒	☐	☐
8. Has the product been approved or registered in other countries or states? (If so provide list)	☐	☒	☐
9. Any requirements for company-certified installers or trainers?	☒	☐	☐
10. Was this product(s) previously approved or registered by the Department?	☐	☐	☒
If yes, please specify the Equipment Number: <u>EQ-_____</u>			
11. Any changes or modifications to the equipment since the last submittal to DEP?	☐	☐	☒

Document Information: Provide supporting documents indicated as "Yes" above including this form via email to Tanknotify@dep.state.fl.us, or documents can be sent to FDEP, Division of Waste Management, 2600 Blair Stone Road, MS 4560, Tallahassee, FL 32399.

Write a brief description of equipment installation and performance in the U.S.:

Installation and programming of the TS-RA1, TS-RA2, and the TS-RK requires a Franklin Fueling Systems certified technician and should be performed in accordance with any local, state, or federal regulations. The mounting location of TS-RA1, TS-RA2, TS-RK units should be based on: cable run length, ease of conduit routing, alarm light visibility, alarm horn audible range limitations, and the distance away from hazardous areas. The TS-RA1 operates at 85 dB at 10 feet and the TS-RA2 operates at 75 to 99 dB at 10 feet.

Equipment Registration Certification:

To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.

Matthew S. Kirby, Product Support Engineer

Printed Name and Title

Matthew S. Kirby

Signature

Reason: I am the author of this document
Location: Franklin Fueling Systems, Saco, Me
04072
Date: 2018-03-08 10:29:23
Foxit Reader Version: 9.0.1

3/5/2018

Date

For Department Use Only:

Date Application Received: 6/18/2018 Renew by 6/18/2023

Application complete:

Yes: ☒ No: ☐

EQ- 898

Date of complete or incomplete letter sent: 6/18/2018 Complete

Date of entry to the DEP Equipment Registration List: 6/18/2018



Internet link to the Franklin Fueling Systems, FFS PRO University, online training website.

<https://university.ffspro.com/en/online-training/>

Prerequisite training:

Fueling System Safety: <https://university.ffspro.com/en/online-training/safety/fueling-system-safety/safety-training-test/>

Product Specific Training:

FMS Installation – INCON Level1: Covers remote alarms
<https://university.ffspro.com/en/online-training/california-certifications/fms-installation-incon-level-1/fms-installation-incon-level-1-test/>

Highlights

- Pulsating light and piezoelectric buzzer warn of alarm conditions.
- Can be combined with TS-RK remote acknowledge unit to provide choice of alarm silencing options.
- Can be programmed through Franklin Fueling Systems Automatic Tank Gauges to activate in response to any type of alarm in the system.
- Alarms for overfill and general purpose.

TS-RA1 Remote Audible and Visible Alarm Unit

The INCON™ brand TS-RA1 is a remote audible and visible alarm unit for use with Franklin Fueling Systems Automatic Tank Gauges. The unit may be used as an overfill alarm as required by federal, state and local regulations, or as a general purpose remote alarm annunciator.



Specifications

- Install within 1000 feet of console.
- Wiring: Type THHN, TFFN or THWN, 18 AWG or larger installed in conduits and completely separated from probe and sensor circuits.
- Operates directly from 110 VAC line power.
- For use in indoor/outdoor applications that have low background noise.

Ordering Information

Model	Description
TS-RA1	Standard intensity, tank overfill alarm with light and horn
TS-RK	Remote tank overfill alarm acknowledge unit



FUEL MANAGEMENT SYSTEMS



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 Tel: Mex 001 800 738 7610 • Tel: FR +33 (0) 1 69 21 41 41 • Tel: CH +86 10 8565 4566



FFS-0331 01-14

Highlights

- Pulsating light and piezoelectric buzzer warn of alarm conditions.
- Ideal for outdoor applications where a high intensity alarm is necessary.
- Can be combined with TS-RK remote acknowledge schemes.
- Has adjustable sound level with useful range of over 200 feet.

TS-RA2 Remote Audible and Visible Alarm Unit

The INCON™ brand TS-RA2 is a high intensity remote audible and visible alarm unit for use with Franklin Fueling Systems Automatic Tank Gauges. The unit may be used as an overfill alarm as required by federal, state and local regulations, or as a general purpose remote alarm annunciator.



Specifications

- Install within 1000 feet of console.
- Wiring: Type THHN, TFFN or THWN, 18 AWG or larger installed in conduits and completely separated from probe and sensor circuits.
- Operates directly from 110 VAC line power.
- For use in indoor/outdoor applications that have high background noise.

Ordering Information

Model	Description
TS-RA2	High intensity, tank overfill alarm with light and horn
TS-RK	Remote tank overfill alarm acknowledge unit



FUEL MANAGEMENT SYSTEMS



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 Tel: Mex 001 800 738 7610 • Tel: FR +33 (0)1 69 21 41 41 • Tel: CH +86 10 8565 4566



FFS-0332 01-14

Highlights

- Locks or silences audible and visible alarms up to 1000 feet.
- Facilitates rapid response during emergencies in either indoor or outdoor locations.
- Can be combined with TS-RA1 or TS-RA2 remote alarm units to provide a choice of alarm silencing options.
- Housed in rugged, nonmetallic NEMA® 4X unit ideal for any weather condition

TS-RK Remote Alarm Acknowledge Unit

The INCON™ brand TS-RK is a remote alarm acknowledge unit for use with all Franklin Fueling Systems Automatic Tank Gauges equipped with remote alarm annunciators.



Specifications

- Install within 1000 feet of console.
- Wiring: Type THHN, TFFN or THWN, 18 AWG or larger installed in conduits and completely separated from probe and sensor circuits.
- In conjunction with TS-RA1 or TS-RA2 and operates directly from 110 VAC line power.

Ordering Information

Model	Description
TS-RK	Remote tank overfill alarm acknowledge unit



FUEL MANAGEMENT SYSTEMS

Ken Wilcox Associates, Inc.

1125 Valley Ridge Drive
Grain Valley, Missouri 64029
Voice (816) 443-2494, Fax (816) 443-2495
E-mail: cwilcox@kwaleak.com

June 15, 2018

To: Florida Department of Environmental Protection
Storage Tank Regulation Section

For: Florida Approval for INCON TS-RK Alarm Acknowledge Unit and TS-RA1/TS-RA2 Remote Audible/Visible Alarm Units.

Dear Sirs:

This letter is a summary of our review of the test results from the testing of the TS-RK alarm acknowledge unit as well as the TS-RA1 and TS-RA2 remote audible and visible alarm units made by INCON. The TS-RA1 and TS-RA2 alarm units are designed for use on Franklin Fueling Systems(FFS) Automatic Tank Gauges(ATG)*. The FFS ATG is programmed to trigger an alarm activation when the product level in an underground storage tank(UST) exceeds the safe fill level.

Test results

The 3 units tested include:

1. TS-RK – Remote Alarm Acknowledge Unit

This unit is designed to acknowledge that there is an alarm condition present which indicates the safe product level in a UST has been exceeded. There is a push button on this unit that silences the alarm when pushed. KWA has found that the TS-RK remote alarm acknowledge unit performs as designed without exception.

2. TS-RA1 – Remote Visible and Audible Alarm Unit

The TS-RA1 is a remote audible and visible alarm unit for use with FFS ATG's. The alarm unit is used as an overfill alarm as required by federal, state and local regulations. When the safe product level is exceeded in a UST, an audible and visible alarm is indicated on the TS-RA1 unit. KWA has tested and found that the TS-RA1 unit performs as designed without exception.

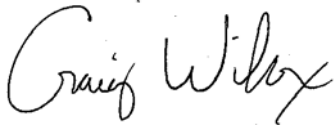
3. TS-RA2 – Remote Visible and Audible Alarm Unit

The TS-RA2 is a remote audible and visible alarm unit for use with FFS ATG's. The alarm unit is used as an overfill alarm as required by federal, state and local regulations. When the safe product level is exceeded in a UST, an audible and visible alarm is indicated on the TS-RA2 unit. KWA has tested and found that the TS-RA2 unit performs as designed without exception.

It is our conclusion that the TS-RK, TS-RA1 and TS-RA2 tested in our laboratory respond as indicated in the manufacturers description of each unit and should meet the requirements of the Florida Administrative Code Rule 62-761 Release Detection Methods.

Please feel free to contact us at (816) 443-2494 if you have any questions.

Sincerely,

A handwritten signature in black ink, reading "Craig Wilcox". The signature is written in a cursive, flowing style.

Craig D. Wilcox, President, Ken Wilcox Associates, Inc.

*Franklin Fueling Systems(FFS) Automatic Tank Gauges(ATG) include the following models. T1000, T1001, T750, T5, T550, T5000, CL6, EV0200, EVO400, EVO600, and EVO6000