



**PMP
CORPORATION**

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Installation Instructions

Remanufactured Veeder-Root® Overfill Alarm and Acknowledgement Switch

Overfill Alarm

PMP # 62625

OEM # 790091-001

Acknowledgement Switch

PMP #62626

OEM #790095-001

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Related Manuals

This installation requires specific knowledge of Veeder-Root equipment and you may need to refer to the following OEM manuals to complete the installation:

576013-589	Overfill Alarm Installation Guide
576013-623	TLS-3XX Series Console System Setup Manual
576013-879	TLS-3XX Series Console Site Prep and Installation Manual
577013-879	TLS-4XX Series Console Site Prep and Installation Manual
576013-818	TLS-3XX Series Consoles Troubleshooting Guide

Safety Symbols

The following safety symbols are used to alert you to potential hazards and precautions that should be taken. These symbols are not intended to alert you to all of the potential hazards you could be exposed to while working in a service station environment. These symbols cannot replace common sense and industry practices.



Read and understand all of the written material related to the installation of this product. If you are un-sure of any aspect of this product, contact PMP for clarification



Attention. Pay particular attention to the text adjacent to the use of this symbol to alert you to safety or operational issues.



Remove / disconnect all power before proceeding with this installation.



Potential shock hazard. Test circuit to verify power has been disconnected



Cordon off work area with barriers to avoid contact with traffic



Use appropriate safety equipment including equipment that may be mandated by federal, state and local regulations

BEFORE YOU BEGIN



- Service station equipment has both electricity and hazardous, flammable and potentially explosive liquid. Failure to follow the precautions below and instructions in this guide may result in serious injury and death. Follow all rules, codes and laws that apply in your area.
- Veeder-Root requires training certifications for contractors who install and set up equipment related to the TLS-350. Installers of this product must have a Veeder-Root® certification of Level 2/3. Be sure that you have familiarized yourself with these requirements and determined if you are qualified to perform this installation.



- PMP shall not be liable for errors contained herein or for incidental or consequential damages in connection with furnishing, performance or use of this publication.
- PMP reserves the right to change product features or the information contained in this publication.
- Failure to install this product in accordance with OEM instructions and warnings will result in voiding of all warranties connected with this product and may damage the environment.

SAFETY PRECAUTIONS FOR INSTALLATION AND MAINTENANCE



- Only a person with knowledge and experience with service station equipment should perform this work.
- Always make sure ALL power to the equipment you are working with is turned OFF before starting any maintenance.



- Note that more than one disconnect switch may be required to de-energize the equipment for maintenance and servicing. Use a voltmeter to make sure ALL circuits in the dispenser are de-energized. Failure to do so may result in serious injury.



Description

Thank you for purchasing PMP Corporation’s Overfill Alarm (#62625) and / or the optional Acknowledgement Switch (#62626). When used in conjunction with your tank gauge, the Overfill Alarm provides an exterior alarm to alert the driver of a high product or overfill condition during bulk delivery.

The optional Acknowledgement Switch provides a method for the driver or station operator to “acknowledge” the alarm by pressing the Reset button without needing access to the tank gauge to silence the alarm. The “Acknowledged” light will remain lit until the tank gauge has printed an inventory increase report. The Acknowledgement Switch also provides a convenient Test button to allow periodic testing.



Depending on your tank gauge and / or site configuration, additional hardware may be required. For example, if connecting the Overfill Alarm to a TLS-350, an Input /Output Combination module or 4 Relay Output module may be required. Be sure to read and understand your tank gauge documentation prior to beginning the installation process.

Compatibility

Console	Series
TLS-450	8600
TLS-350R*	8482
TLS-350*	8470
TLS-300	8485
TLS-250	7841
TLS-250i	7941

*An Input/Output Combination Module (329299-00x) or 4-Relay Output Module (329359-00x) Module is required. Verify your system is properly equipped before starting the installation.

Alarm Components

PMP Number	OEM Number	Description
62625	790091-001	Overfill Alarm
62626	790095-001	Alarm Acknowledgement Switch

Mount the Overfill Alarm and Acknowledgement Switch



1. Turn-off power to the system.
2. Block off the work area.
3. Check your local building codes to be sure there are no requirements for where the Overfill Alarm and Acknowledgement Switch are mounted.
4. Depending on where you choose to mount the Overfill Alarm and Acknowledgement Switch, firmly mount using the 4 holes on the mounting tabs provided on each box (hardware not included).

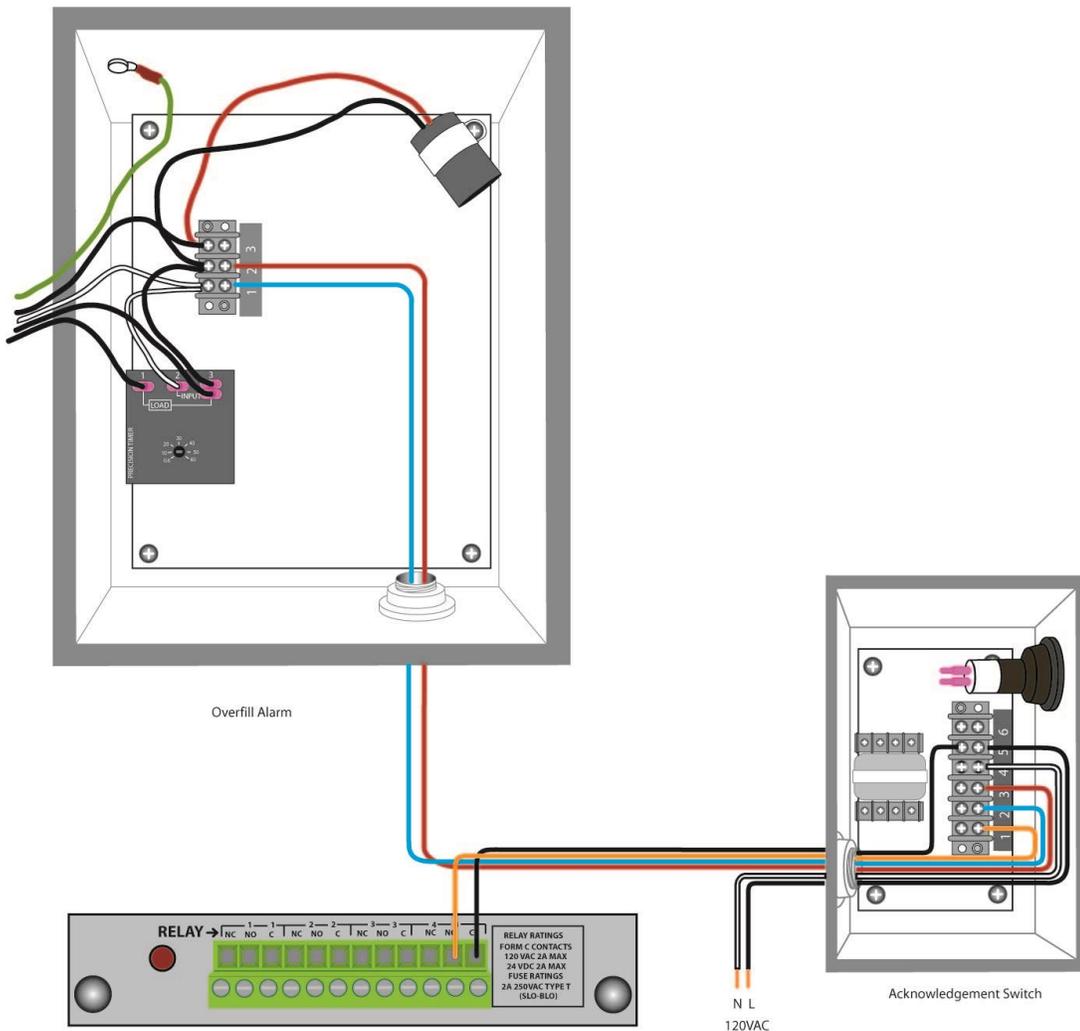
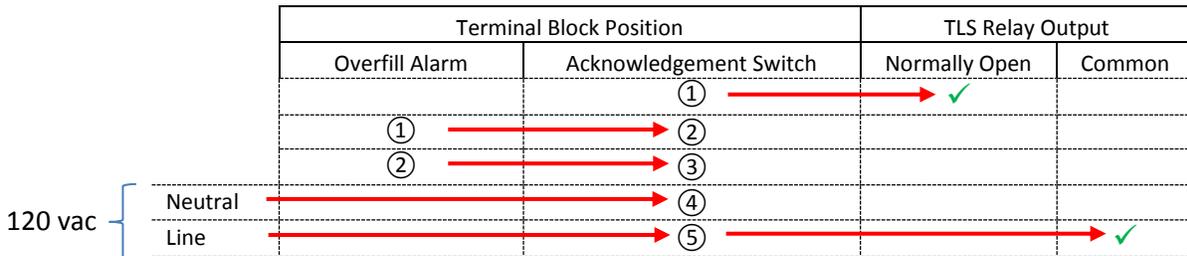


Wiring the Overfill with an Acknowledgement Switch



Wire used for this installation must have a rating of at least 90°C, must be 14 or 16 AWG and be color coded. Use the color illustration below as guide. However, the colors used are for clarity. The actual wire colors you use may be dictated by national and local codes.

1. Install one wire between terminal 1 of the Overfill Alarm to terminal 2 of the Acknowledgement Switch.
2. Install one wire between terminal 2 of the Overfill Alarm to terminal 3 of the Acknowledgement Switch.
3. Install one wire between 120 vac neutral to terminal 4 of the Acknowledgement Switch.
4. Install one wire between 120 vac line to terminal 5 of the Acknowledgement Switch
5. Install one wire between terminal 5 of the Acknowledgement Switch to Common terminal of the console relay output.
6. Install one wire between terminal 1 of the Acknowledgement Switch to the Normally Open terminal of the console relay output.



Sample TLS-350 wiring for 4-Relay Output Module

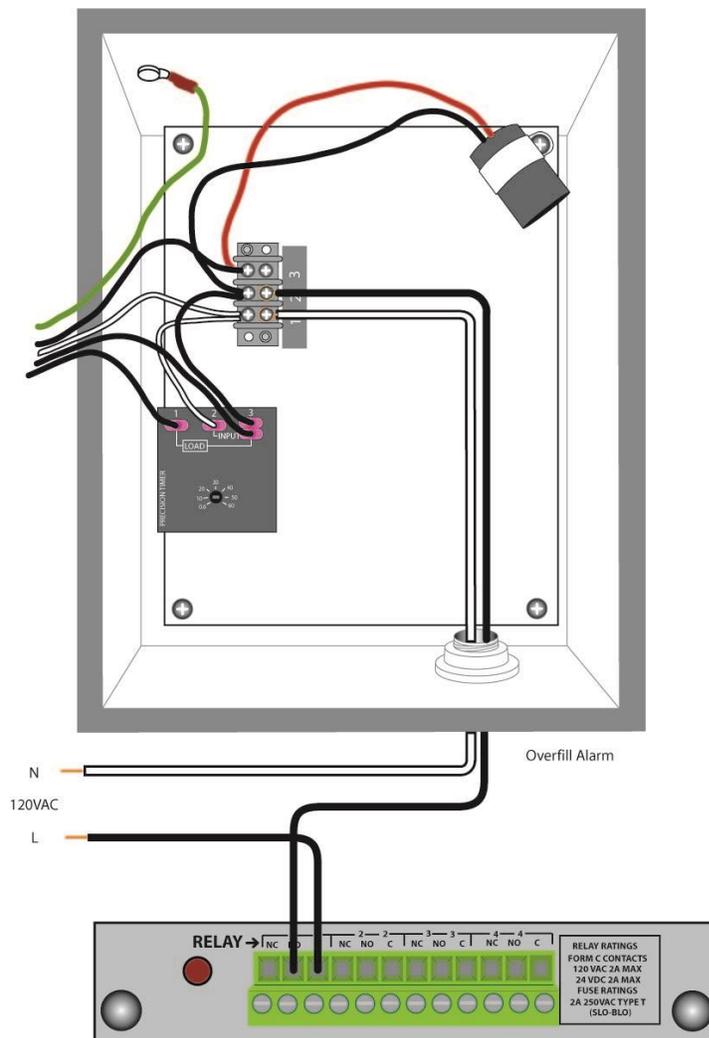
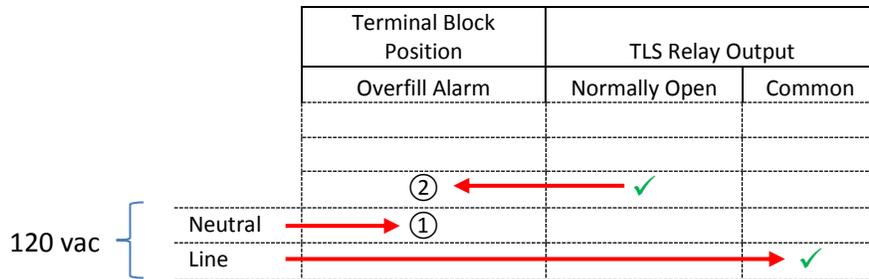
Note: connection colors shown are for clarity only.

Wiring the Overfill without an Acknowledgement Switch



Wire used for this installation must have a rating of at least 90°C, must be 14 or 16 AWG and be color coded. Use the color illustration below as guide. However, the colors used are for clarity. The actual wire colors you use may be dictated by national and local codes.

1. Connect one wire between 120 vac Neutral to terminal 1 of the Overfill Alarm.
2. Connect one wire between 120 vac Line to common terminal of the console relay output.
3. Connect one wire between the Normally Open terminal of the console relay output to terminal 2 of the Overfill Alarm

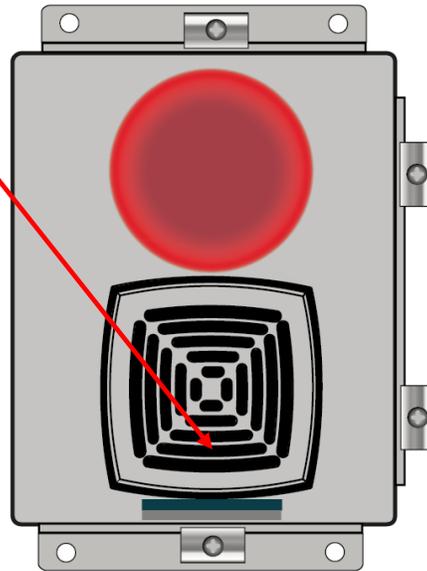


Sample TLS-350 wiring for 4-Relay Output Module

Note: connection colors shown are for clarity only.

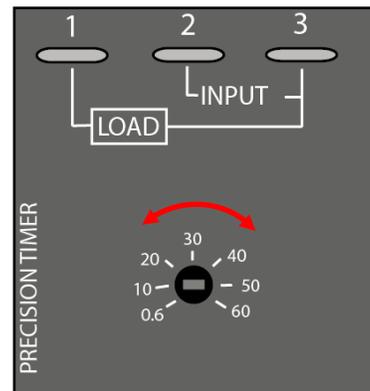
Adjusting the Overfill Alarm Horn Volume

1. The adjustment screw is on the front of the horn body.
2. Locate the screw where shown.
3. Using a 1/16" hex key, turn the screw counterclockwise to make the horn louder. Turn the screw clockwise to make the horn quieter.



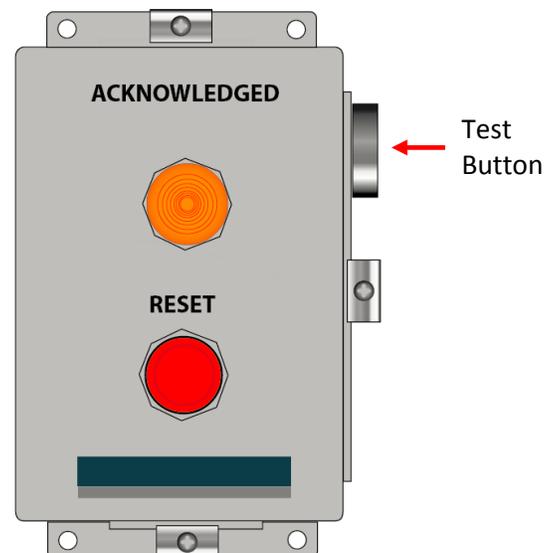
Adjusting the Overfill Alarm Timer Cycle

1. Loosen the 4 screws which hold the Overfill Alarm door closed.
2. Slide the brackets out of the way and open the door.
3. Locate the timer module located inside the Overfill Alarm.
4. You can adjust the time will remain on between 0 – 60 seconds. Adjust the time by turning the knob to the desired setting. Clockwise to increase the time, counterclockwise to decrease the time.
5. When finished, close the door and retighten the brackets and cover screws.



Testing the Overfill Alarm with the Acknowledgment Switch

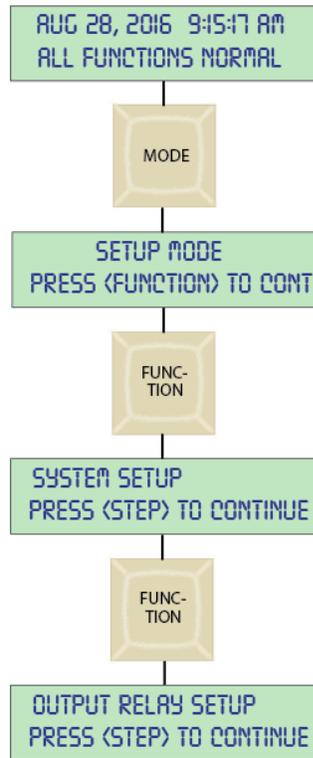
1. If you have chosen to install the optional Acknowledgement Switch, ensure the power is on to the Overfill Alarm and the Acknowledgement Switch.
2. Press and hold the TEST button located on the side of the Acknowledgement Switch.
3. The Overfill Alarm will sound and the red beacon will start flashing.
4. If you continue to hold the TEST button, the horn will turn off at the pre-determined time set above.
5. The red beacon will continue to flash until the TEST button is released.



Programming the Console

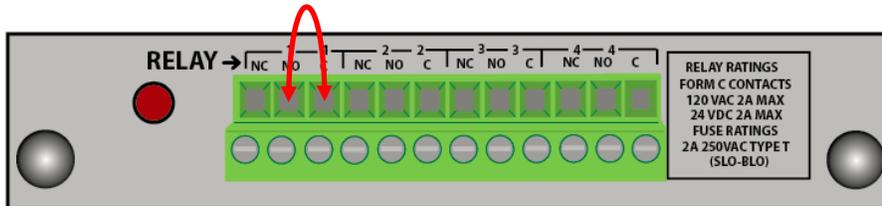


1. Consult your console manuals on how to properly program the console to assign the Overfill Alarm to the desired relay output along with programming the set points at which the alarm will be activated.
2. The following is a high-level view of the programming steps necessary for a TLS-350 / TLS-300 console:



Testing the Overfill Alarm with the Console (and Periodic Testing)

1. After you have installed the Overfill Alarm and the Acknowledgement Switch (if installed), turn power Off to the console and the Overfill Alarm / Acknowledgement Switch.
2. Install a jumper wire between the two relay contacts being used for the Overfill Alarm. For example:



Overfill Alarm without the Acknowledgement Switch

1. Restore power to the console and Overfill Alarm. The alarm will sound immediately after power is restored. The beacon should also begin flashing.
2. Turn off power to the console and Overfill Alarm. Remove the jumper wire between the relay contacts.
3. Restore power to the console and Overfill Alarm.

Overfill Alarm with the Acknowledgement Switch

1. Restore power to the console and Overfill Alarm. The alarm will sound immediately after power is restored. The beacon should also begin flashing.
2. Press the RESET button on the front of the Acknowledgement Switch. The alarm horn and the flashing beacon should turn off. However, the ACKNOWLEDGED light on the front of the Acknowledgement Switch should turn on. The light will remain on until the cause of the alarm has been addressed.
3. Turn off power to the console and Overfill Alarm. Remove the jumper wire between the relay contacts.

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