INSTALLATION INSTRUCTIONS

Universal Mounting Kit Installation

Manual No. 576013-827, Revision B

VEEDER-ROOT
Environmental Products

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Veeder-Root Support

Calling for Help

These telephone numbers are included in this manual to help expedite your calls.

Customer Service	
Orders, accessories and supplies, customer support assistance, nearest authorized Veeder-Root distributor	Tel. 800-873-3313 Fax 800-234-5350
Monday - Friday, 8 AM. - 6 PM Eastern Standard Time	

Product Information	
Literature requests	Tel. 203-651-2862 Fax 203-651-2842
Technical applications information	Tel. 203-651-2700
Monday - Friday, 8 AM. - 4:30 PM Eastern Standard Time	

Technical Support (for Authorized Contractors only)	
Technical Service Hotline	Tel. 203-651-2753
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Table of Contents

Veeder-Root Support

Calling for Help i

Introduction

General 1
Damage Claims 1
Return Shipping 2
Product Description 3
Kit Contents 3

Mounting Sensors

Dispenser Pan Sensor In A Dispenser Pan 4
Sensor in a Dispenser Pan with Support Bar 6
Sensor to Conduit 8
Sensor to a Supply Line 10
Mounting The Containment Sump Sensor 11

List of Figures

Figure 1. Universal Mounting Kit Contents 4
Figure 2. Mounting the Sensor in the Dispenser Pan 6
Figure 3. Mounting the Sensor with the Sensor Stabilizer Tube 7
Figure 4. Mounting the Sensor using Two Extension Brackets 8
Figure 5. Mounting the Sensor to the Rigid Conduit 9
Figure 6. Mounting the Sensor to the Supply Line 10
Figure 7. Mounting the Sensor in a Containment Sump 12

Introduction

General

This manual describes installation procedures for the Universal Mounting Kit for Dispenser Pan and Containment Sump Sensors, Part Number 330020-012, from the Veeder-Root Company, 125 Powder Forest Drive, Simsbury, CT 06070-2003.

This manual is intended for use with the following manuals:

- *Stand-alone Dispenser Pan Sensor with Dispenser Control Interface Manual*, Part No. 576013-895
- *Solid-State Pan Sensor Manual*, Part No. 576013-914
- *Solid-State Sump Sensor Manual*, Part No. 576013-303
- *Discriminating Dispenser Pan Sensor Manual*, Part No. 576013-915
- *Solid-State Discriminating Pan Sensor Manual*, Part No. 576013-841
- *Discriminating Containment Sump Sensor Manual*, Part No. 576013-915
- *Solid-State Discriminating Sump Sensor Manual*, Part No. 576013-842

Since you can use the Universal Mounting Kit in a variety of ways, this manual discusses only the most commonly used mounting methods.

Damage Claims

1. Thoroughly examine all components as soon as received.

NOTE: *Insist that the carrier's agent verify the inspection and sign the description.*

2. Immediately notify the delivering carrier of damage or loss in person or by telephone. Mail written confirmation within 48 hours. Railroads and motor carriers are understandably reluctant to make adjustments for damaged merchandise unless inspected and reported promptly.

3. Risk of loss or damage to merchandise remains with the buyer. It is the buyer's responsibility to file a claim with the carrier involved.

4. Immediately advise your Veeder-Root representative, distributor, or the factory so that we may assist you.

Return Shipping

All product returns, including warranty replacements, repairs, and core credits, must be returned on an RGA (Returned Goods Authorization) for proper processing. To return a product under this procedure:

1. Call Customer Service at (800) 873-3313 to obtain an RGA number.

2. Clearly print the RGA number on the packages being returned. No package can be received without this number.

3. All shipments of Veeder-Root products must be prepaid.

4. If the piping sump sensor is damaged, return it in the original shipping container with shock absorbing material provided. Veeder-Root will accept no liability for damage caused by improper packing.

5. Address the shipment to Veeder-Root Co., 6th Avenue at Burns Crossing, Altoona, Pennsylvania 16602.

6. All warranty returns must also include a legible WSR (warranty service report). Problem description and corrective action must be filled out in detail.

Product Description

The Universal Mounting Kit is compatible with most manufacturer's dispenser pans and containment sumps and allows you to mount:

- a Dispenser Pan Sensor in a dispenser pan
- a Containment Sump Sensor to a containment sump
- a Stand-alone Dispenser Pan Sensor with Dispenser Control Interface in a dispenser pan or sump

Kit Contents

The Universal Mounting Kit, Part No. 330020-012 consists of:

Quantity	Description
2	Extension brackets (see Item 1, Figure 1)
1	L-bracket (see Item 2, Figure 1)
1	3/4-inch U-bolt (see Item 5, Figure 1)
1	1-inch U-bolt (see Item 5, Figure 1)
1	2-inch U-bolt (see Item 5, Figure 1)
1	3/8-inch spring nut (see Item 3, Figure 1)
1	3/8-16 X 7/8-inch bolt
3	1/4-20 nut
3	1/4-20 x 3/4-inch bolt
3	1/4 flat washer
1	2-inch conduit clamp (See Item 4, Figure 1)
1	1/4 X 1-inch spacer (See Item 4, Figure 1)

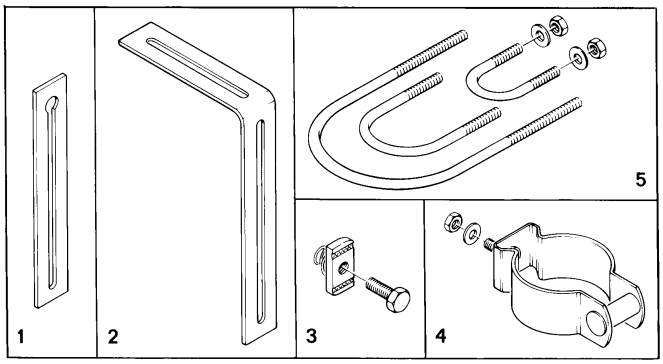


Figure 1. Universal Mounting Kit Contents.

Mounting Sensors

Dispenser Pan Sensor In A Dispenser Pan

Depending on the type of pan you are using, you can configure the Universal Mounting Kit in several different ways. Some of the more frequently used mounting methods are presented in this section.

NOTE: *Before mounting the dispenser pan sensor, see the installation instruction manual, provided with the sensor, for complete sensor installation instructions.*

When installing the dispenser pan sensor, consider the following important requirements:

- Rest the sensor in the cup or lowest point of the dispenser pan.
- Mount the sensor in a true vertical position to ensure proper operation.
- Ensure that there will be enough room to pull the sensor straight out of the pan.

To avoid electrical shock that could kill you, be sure AC power to the console is off during installation.

Follow these steps to install the dispenser pan sensor in the dispenser pan:

1. Turn OFF AC power to the TLS-350 system.

CAUTION: Do not install the dispenser pan sensor if there is any liquid in the dispenser pan. Failure to comply can result in equipment damage or undetected potential environmental and health hazards.

2. Make sure no liquid exists in the dispenser pan.

NOTE: *Before removing an existing dispenser pan sensor, be sure to mark field wires in the junction box to maintain correct sensor wiring polarity during the replacement procedure.*

3. Choose a location in the dispenser pan where the sensor can be pulled straight out for future service or replacement, and the sensor will rest in the cup or the lowest point in the pan.

4. Mount the dispenser pan sensor using the Universal Mounting Kit. Since you can use the Mounting Kit in a variety of ways, follow the steps for the method that best meets your needs.

NOTE: *If you are using the dispenser pan in an area that will be backfilled, you will need to protect the sensor with a sensor stabilizer. The sensor stabilizer is a wire mesh tube that the sensor slides into. Insert the sensor stabilizer into the clamp, then slide the sensor into the wire mesh tube (Figure 3).*

Sensor in a Dispenser Pan with Support Bar

If the dispenser pan has a support bar, you can attach the sensor to the bar with the Universal Mounting Kit.

1. Assemble the clamp by inserting the spacer (if you are using a stabilizer tube) in the clamp, then securing it with the supplied bolt.

***NOTE**: The spacer prevents you from clamping the stabilizer tube too tightly. If you are not using a stabilizer tube, the spacer is not required.*

2. Attach the clamp to the extender bracket with a 1/4-20 x 3/4-inch bolt.

3. Attach the extender bracket to the support bar in the dispenser pan using the spring nut. If you need to mount the sensor lower, add on the additional extension bracket as shown in Figure 4.

4. Slide the sensor into the clamp, making sure the sensor rests in the cup or the lowest point in the pan.

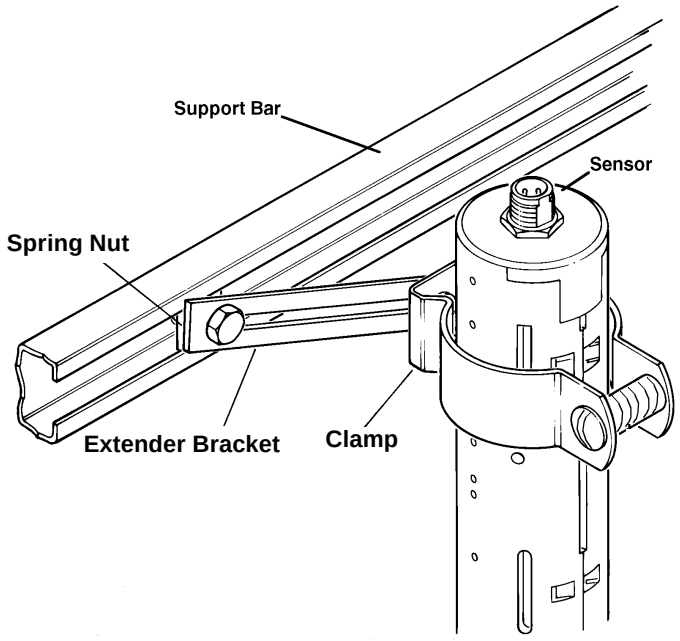


Figure 2. Mounting the Sensor in the Dispenser Pan.

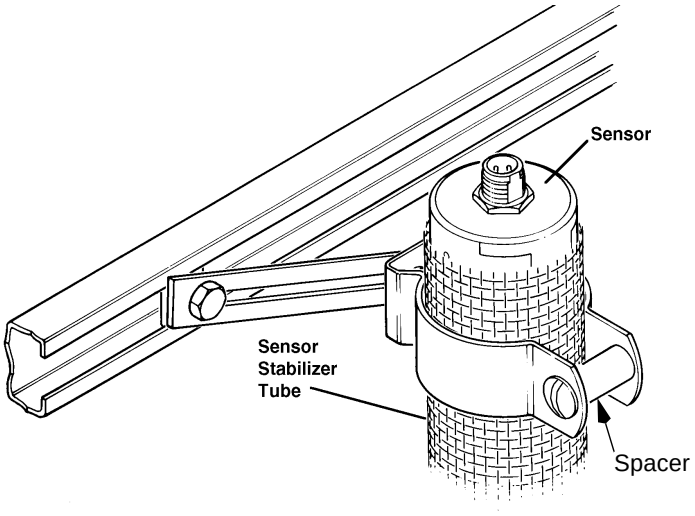


Figure 3. Mounting the Sensor with the Sensor Stabilizer Tube.

Sensor to Conduit

Another method of mounting the sensor is to mount it to the rigid conduit.

1. Assemble the clamp by inserting the spacer (if you are using a stabilizer tube) in the clamp, then securing it with the provided bolt.

***NOTE**: The spacer prevents you from clamping the stabilizer tube too tightly. If you are not using a stabilizer tube, the spacer is not required.*

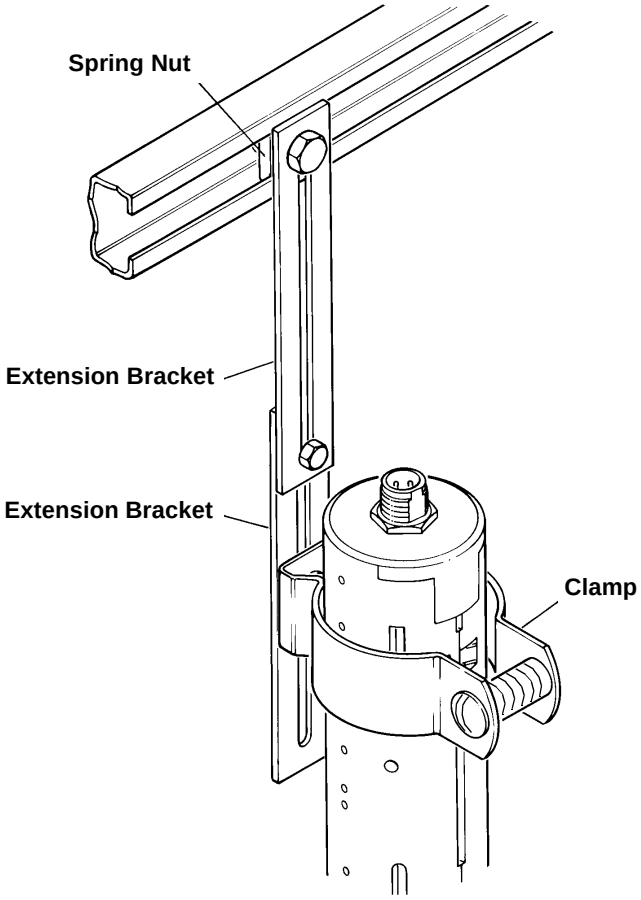


Figure 4. Mounting the Sensor using Two Extension Brackets.

2. Attach the clamp to the L-bracket with the 1/4-20 X 3/4-inch bolt (Figure 5).

3. Using a U-bolt of the appropriate size, attach the L-bracket to the rigid conduit.

4. Slide the sensor into the clamp, making sure the sensor rests in the cup or the lowest point in the pan.

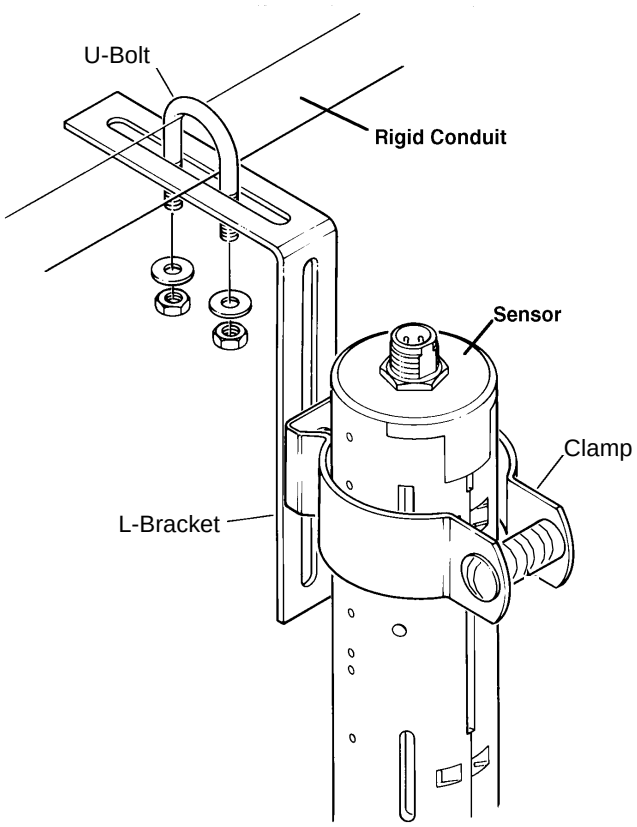


Figure 5. Mounting the Sensor to the Rigid Conduit.

Sensor to a Supply Line

You can also mount the sensor to a steel supply line:

1. Assemble the clamp by inserting the spacer (if you are using a stabilizer tube) in the clamp, then securing it with the provided bolt (Figure 6).

***NOTE**: The spacer prevents you from clamping the stabilizer tube too tightly. If you are not using a stabilizer tube, the spacer is not required.*

2. Attach the clamp to the L-bracket with the 1/4-20 x 3/4" bolt (Figure 6).

3. Using a U-bolt of the appropriate size, attach the L-bracket to the supply line.

4. Slide the sensor into the clamp.

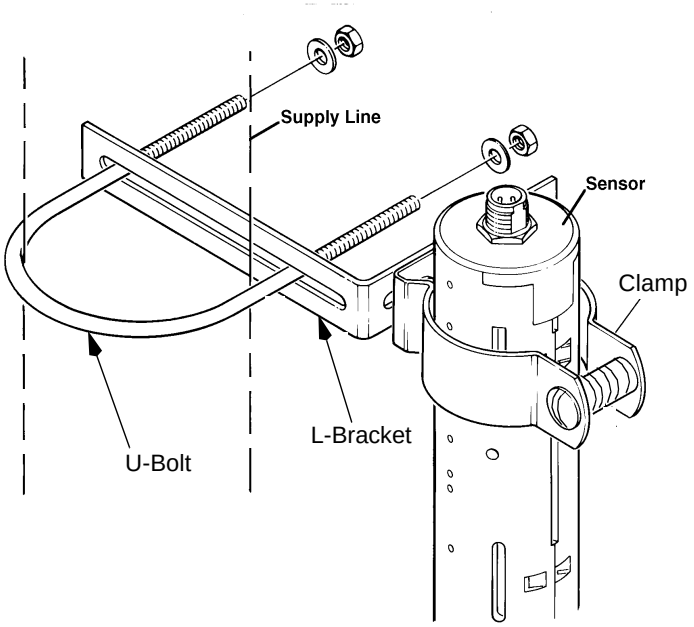
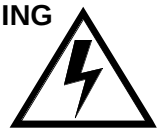


Figure 6. Mounting the Sensor to the Supply Line.

Mounting a Containment Sump Sensor

Before mounting the containment sump sensor, refer to the installation instructions provided with the sensor for complete instructions.

WARNING



WARNING: To avoid electrical shock that could kill you, be sure AC power to the console is off during installation.

CAUTION: Do not install the containment sump sensor if there is any liquid in the sump. Failure to comply can result in equipment damage or undetected potential environmental and health hazards.

1. Turn off AC power to the console.

2. Make sure no liquid exists in the containment sump.

NOTE: *Before removing an existing containment sump sensor, be sure to mark field wires in the junction box to maintain correct sensor polarity during the replacement procedure.*

3. Choose a location in the containment sump according to these guidelines:

- Place the sensor in the lowest point of the containment sump.
- Put the sensor as close to the containment sump outer wall as possible.
- Mount the sensor in a true vertical position to ensure proper operation.

4. You are now ready to install the mounting hardware. Assemble the clamp by inserting the spacer (if you are using a stabilizer tube) in the clamp, then securing it with the bolt supplied with the clamp.

NOTE*: The spacer prevents you from clamping the stabilizer tube too tightly. If you are not using a stabilizer tube, the spacer is not required.*

5. Attach the clamp (Figure 7) to the L-bracket with a 1/4-20 X 3/4-inch bolt.

6. Attach the L-bracket to the containment sump wall.

7. Slide the sensor into the mounting bracket.

***NOTE**: If you are installing the sensor where it will be backfilled, you need to install a sensor stabilizer tube to protect the sensor before securing it into position to protect it.*

8. Continue following the installation procedures in the installation instructions provided with the sensor to complete the installation.

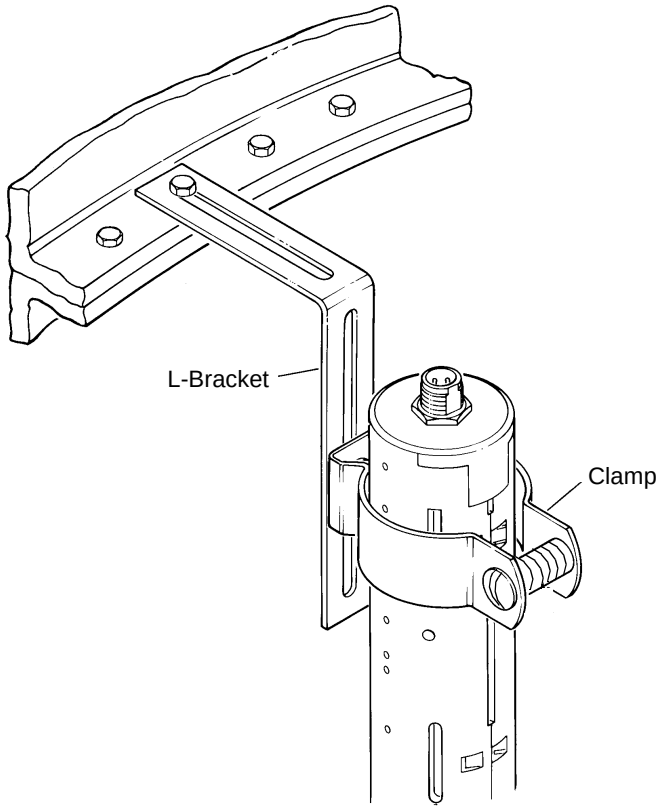


Figure 7. Mounting the Sensor in a Containment Sump.

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