OPW Installation and Maintenance Instructions

OPW 1-3122 and 1-3132 Series Electronic Sensor Replacement

IMPORTANT: Please read these warnings and follow the assembly instructions completely and carefully before starting. Failure to do so may cause product failure, or result in environmental contamination due to liquid leakage into the soil, creating hazardous spill conditions.

IMPORTANT: The OPW 1-3100 Spill Container is pre-assembled for your convenience and ease of installation. Check to make sure the unit is intact and undamaged and all parts have been supplied. Never substitute parts for those supplied. Doing so may cause product failure.

WARNING-DANGER: Using electrically operated equipment near gasoline or gasoline vapors may result in a fire or explosion, causing personal injury and property damage or death. Be sure that the working area is free from such hazards, and always use proper precautions. NOTE: At all times when product is in the storage tank keep the riser pipe capped, so the vapors cannot escape into the environment.

Notice: OPW products must be used in compliance with applicable federal, state, and local laws and regulations. Product selection should be based on physical specifications and limitations and compatibility with the environment and material to be handled. All illustrations and specifications in this literature are based on the latest production information available at the time of publication. Prices, materials, and specification are subject to change at any time, and models may be discontinued at any time, in either case, without notice or obligation.

Standard Product Warranty

OPW warrants that products sold by it are free from defects in materials and workmanship for a period of one year from the date of manufacture by OPW (ECO products two years from date of manufacture.) Proof of purchase may be required. As the exclusive remedy under this limited warranty, OPW, will at its sole discretion, repair, replace, or issue credit for future orders for any product that may prove defective within the one year date of manufacture period (repairs, replacements, or credits may be subject to prorated warranty for remainder of the original warranty period, complete proper warranty claim documentation required.) This warranty shall not apply to any product that has been altered in any way, which has been repaired by any party other than a service representative authorized by OPW, or when failure is due to misuse, or improper installation or maintenance. OPW shall have no liability whatsoever for special, incidental or consequential damages to any party, and shall have no liability for the cost of labor, freight, excavation, clean up, downtime, removal, reinstallation, loss of profit, or any other cost or charges.

For any product certified to California 2001 standards, OPW warrants that product sold by it are free from defects in material and workmanship for a period of one year from date of manufacture or one year from date of registration of installation not to exceed 15 months from date of manufacture by OPW.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND SPECIFICALLY THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

In some states it is prohibited to use spill container drain valves on spill containers that are exclusively used for vapor return risers. Install only 1-3100 Series Thread-On spill container models equipped with a drain plug.

WARNING: If the snowplow ring is removed, for any reason, follow the Operation and Maintenance instruction as noted. Replace o-rings and seals and install new ones. Never reuse damaged o-rings or seals as it may result in an improper seal. Only qualified, competent, well-trained technicians should perform maintenance. Common sense and good judgment should always be exercised. The contractor's understanding of all related site conditions prior to starting the project is essential. If the contractor does not have a clear understanding of the required work and site conditions, the contractor is advised to seek clarification prior to starting any portion of the project.

NOTICE TO DELIVERY DRIVER: All delivery drivers MUST inspect the inside of the container for water or contaminants other than fuel prior to delivery. If water or contaminates are present, then they MUST be removed before proceeding. Dispose of towels and debris safely and per all applicable local, state, and federal codes. After delivery is complete, the driver MUST drain any excess fuel that may have spilled into the container from their delivery hose.

1-3122 & 1-3132 Series Performance Specifications:

Torque Specification:

Ring Bolts: 3/8-16 UN, 20 ft-lbs minimum to 25 ft-lbs maximum.

Tools Recommended

Large slotted screwdriver
DW-VAC-TEST – Vacuum Test Equipment
(or 202310 Test Adaptor)

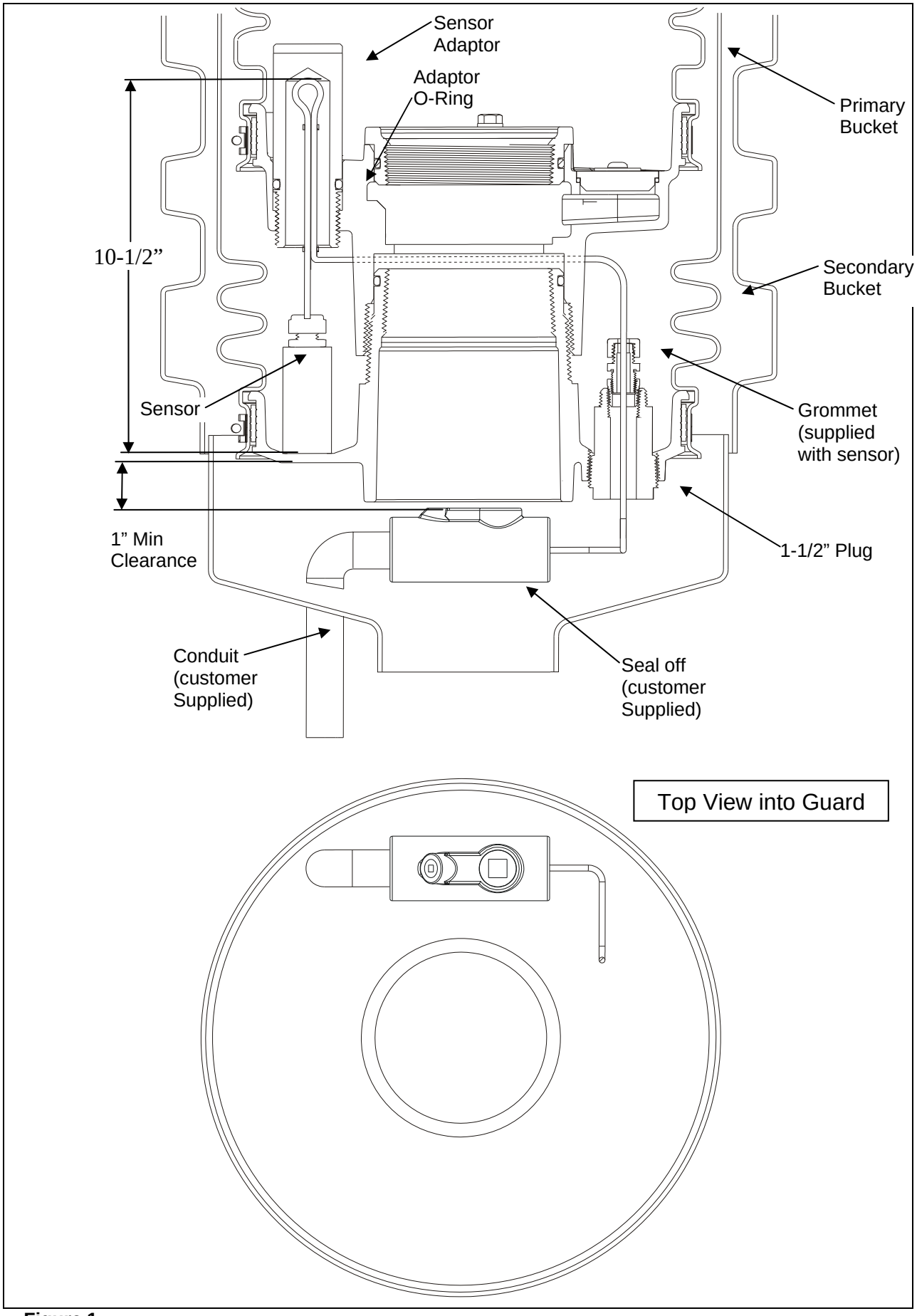
Sensor
Adaptor
Adaptor
O-Ring
Primary
Bucket
10-1/2”
Secondary
Bucket
Sensor
Grommet
(supplied
with sensor)
1” Min
Clearance
1-1/2” Plug
Conduit
(customer
Supplied)
Seal off
(customer
Supplied)
Top View into Guard

Figure 1

1-3100 SERIES ELECTRONIC SENSOR REPLACEMENT INSTRUCTIONS
(Only applies to 1-3122 & 1-3132 models)

Step 1: (See Figures 1 & 4)
Remove the white sensor adaptor from primary bucket and pull sensor to grade. Be careful not to damage sensor.

Step 2:
Ensure that the old sensor is not functional. Test the sensor by flipping it over and checking for an alarm. Alternate test method: Dip the sensor in a cup of water and check for an alarm.

Step 3:
Near the old sensor, cut the sensor wire. Discard the old sensor.

Step 4: (See Figure 1)
Verify that the factory installed loop in the sensor wire is 10-1/2" tall from the bottom of the sensor to the top of the loop as shown in Figure 1. Cut new sensor wire 2 feet from the sensor loop.
Note: Splice is to be installed no closer than 2 feet from the sensor loop.
Note: At least 4 feet of wire should be between the sensor and the grommet.

Step 5: (See Figure 2)
Remove the end caps from the splice kit barrel. Cut the tip off of one of the cones on each of the end caps so that the end cap will fit snugly around the sensor wiring.

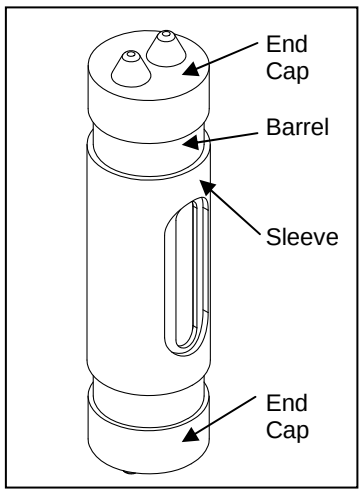

Figure 2

Step 6: (See Figure 3)
Insert the new sensor wire through the hole in one of the end caps and the existing sensor wire (coming in thru the secondary base) through the hole in the other end cap and slide the end caps out of the way. Slide barrel and sleeve onto the sensor wire and slide out of the way as shown in Figure 3.

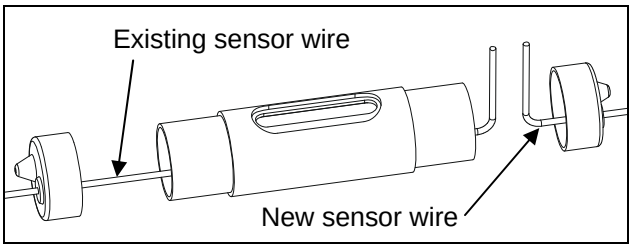

Figure 3

Step 7:
Using the included wire nuts, join the wires per the sensor manufacturer's instructions. Using the included split bolt, securely fasten the two wire ends together.

Step 8:
Center the barrel and sleeve over the splice and slide end caps onto the barrel.

Step 9:
Warm the included compound to at least 60° F (15° C). As shown in the compound mixing instructions, break the center barrier in compound bag by grasping the sides of the bag and rolling thumbs through the barrier. Thoroughly mix the compound, being sure to strip the compound from the corners while mixing.

Step 10:
Cut one corner off of bag and pour the compound through the opening in the barrel until completely full.

Step 11:
Close the barrel by centering the sleeve over the hole in the barrel and rotating the sleeve around the barrel until the hole is completely covered

Step 12:
Test the sensor by flipping it over and checking for an alarm. Alternate test method: Dip the sensor in a cup of water and check for an alarm.

Step 13: (See Figures 1 & 4)
Wait at least 5 minutes then feed the splice kit and excess wire into the secondary bucket. Align sensor with the hole in the primary base where the sensor adaptor will be installed as shown in Figures 1 & 4. Ensure sensor is as flat as possible on bottom of secondary base. Inspect o-ring on sensor adaptor replace if it is not in good condition. Thread sensor adaptor back into primary bucket until o-ring is no longer visible (approximately 6 turns), do not overtighten.

Step 14:
Test bucket as indicated in Step 9 of Installation Instructions.

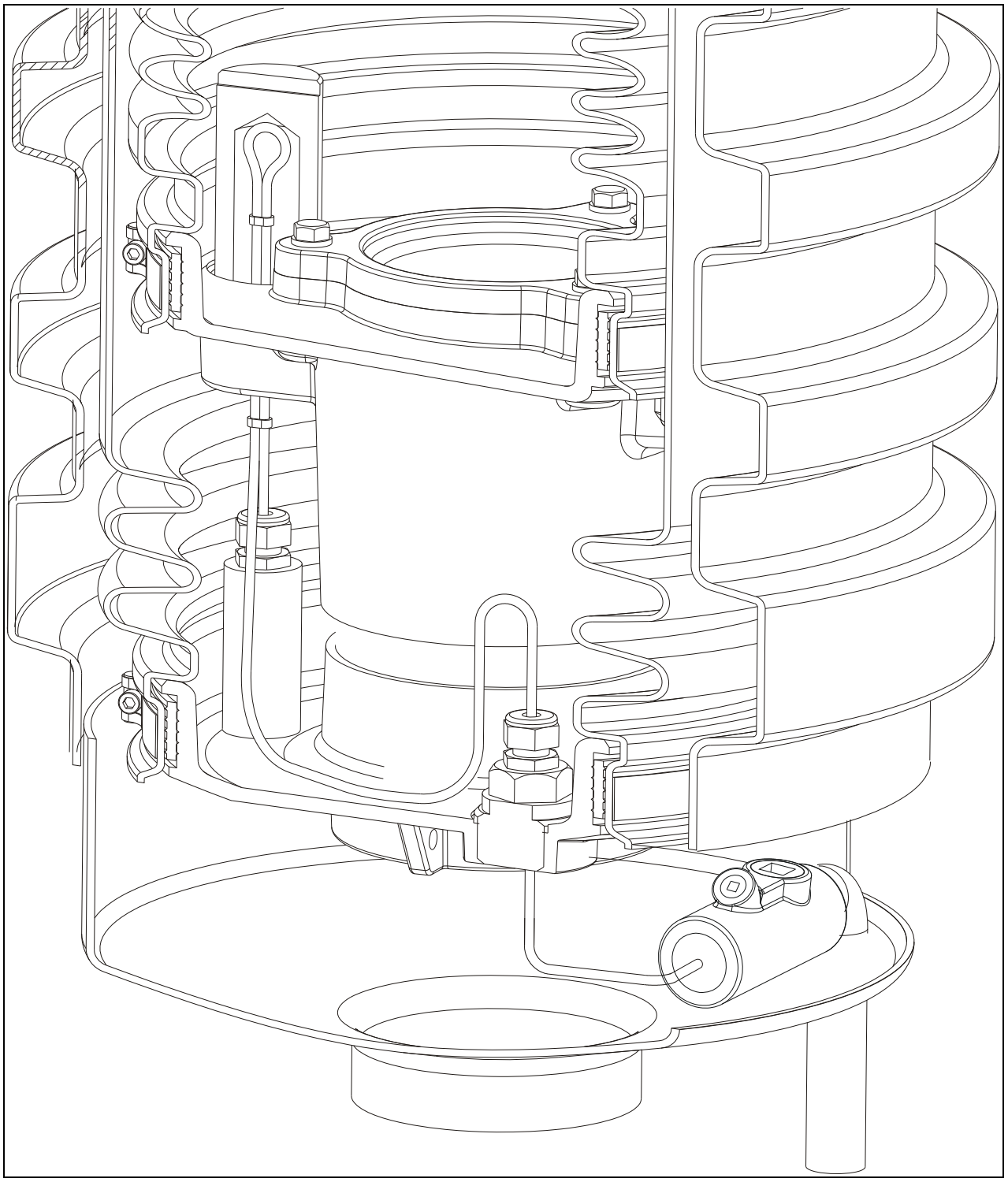

Figure 4

OPW
A DOVER COMPANY
9393 Princeton-Glendale Rd, Hamilton, Ohio 45011
1-800-422-2525 Domestically
513-870-3315 Internationally
www.opw-fc.com

Printed in U.S.A., p/n 202946 – 2/09