

Installation and Operation Instructions

Morrison Alarm Fig No. 918TCP

④ ALARM INSTALLATION

FOLLOW THESE STEPS (Failure to do so may void warranty)

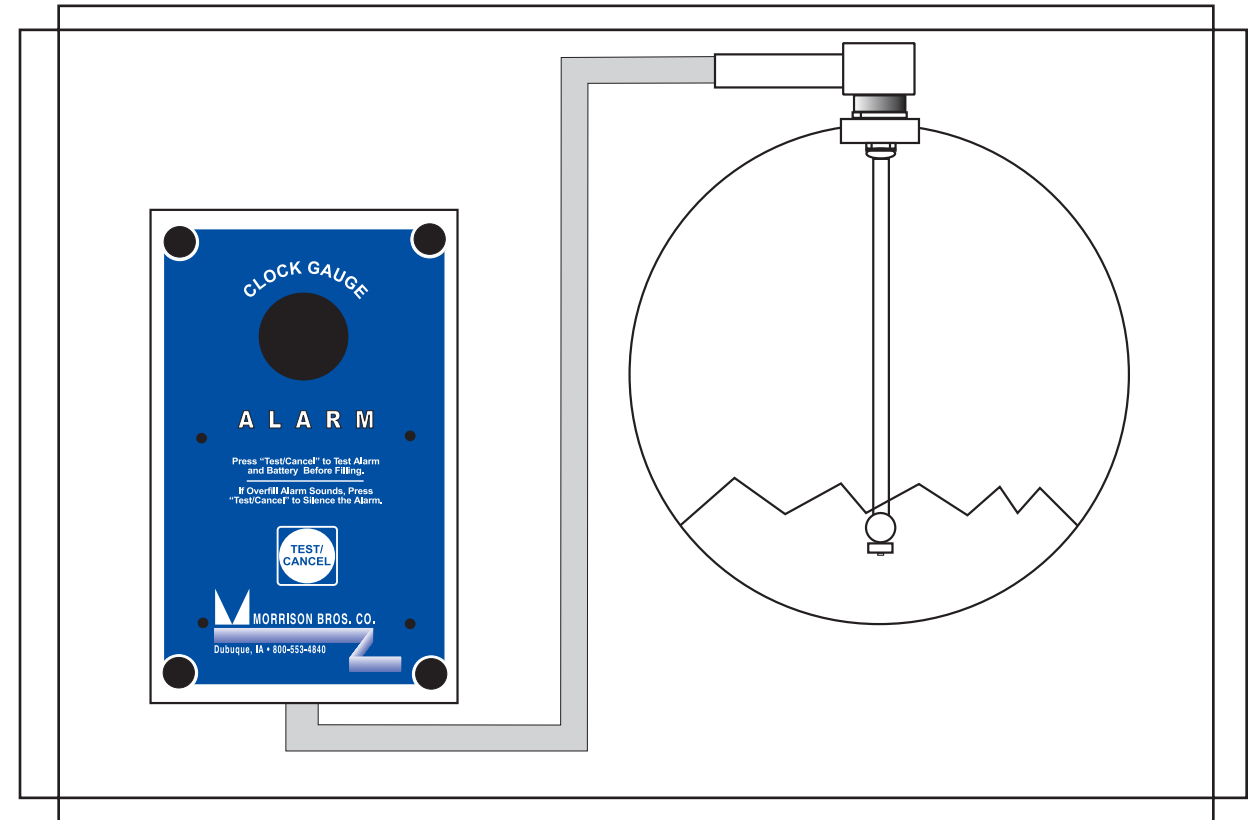
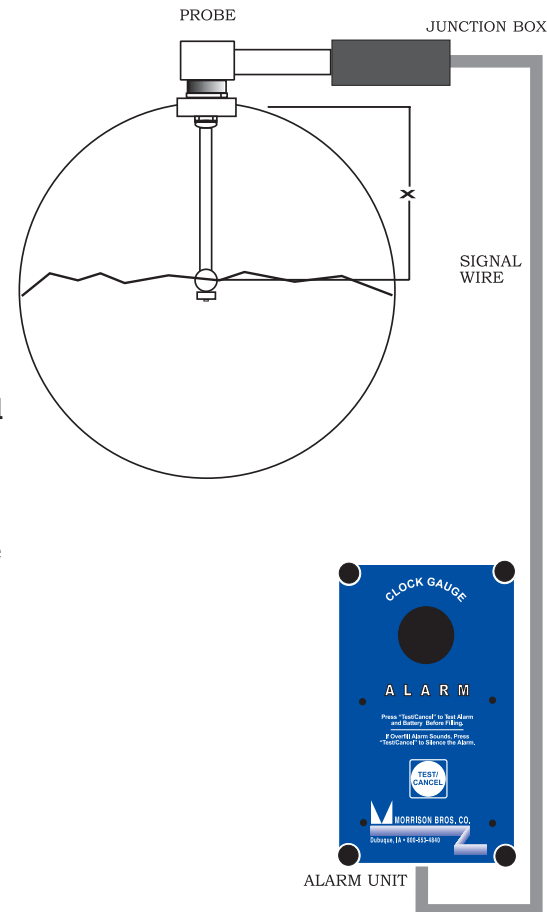
INSTALL THE ALARM UNIT

NOTE: As defined in article 501 - Class 1 Locations of the National Electric Code, this apparatus and its interconnect wiring are intrinsically safe. Under normal conditions this apparatus and its wiring cannot release sufficient energy to ignite a specific ignitable atmospheric mixture by opening, shorting or grounding.

LOCATION: NEC ARTICLE 501-3-CLASS 1 Locations exempt intrinsically safe enclosures in paragraph 501-3(b)(1)(c), and therefore may be placed in the most convenient location but must be within reach to the operator and within audible range.

MOUNTING: Since a general purpose NEMA 4X enclosure is used to protect the alarm circuits and batteries, any mounting holes, conduit, or fasteners must be sealed in order to maintain the weatherproof integrity of the enclosure. All conduit penetrations into enclosure must be made at the bottom of alarm unit.

1. Separate the two halves of the Alarm Unit box. Attach the rear cover of the box to a suitable fixture.
2. Run wire from the Probe Junction Box to the Alarm Unit Box. Refer to federal, state and local electrical codes.
3. Connect the two wires from the probe to the two screw terminals located on the alarm circuit board in the box.
4. Reassemble the two halves of the box.
5. Assemble junction box cover at probe.
6. Attach warning tag at fill point with supplied cable tie, in a location visible to operator.
7. Verify wiring is correct and alarm sounds at the appropriate time.



IMPORTANT

This device is to be used only as an “auxiliary warning” to the operator of a possible overfill situation, and should not be relied upon to prevent tank overfill. It is the responsibility of the operator to continuously monitor the tank filling process and to prevent any spillage regardless of the situation or status of any gauge or alarm apparatus.

WARNING

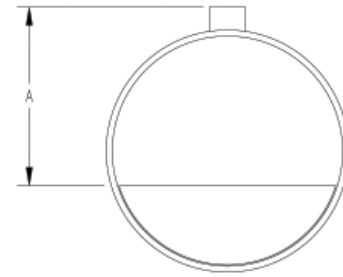
Morrison Bros. Co. will not accept any responsibility or warranty claim if this product is used in any way other than as originally intended.

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918TCP0425 PP
Revision Date: 11/16/07

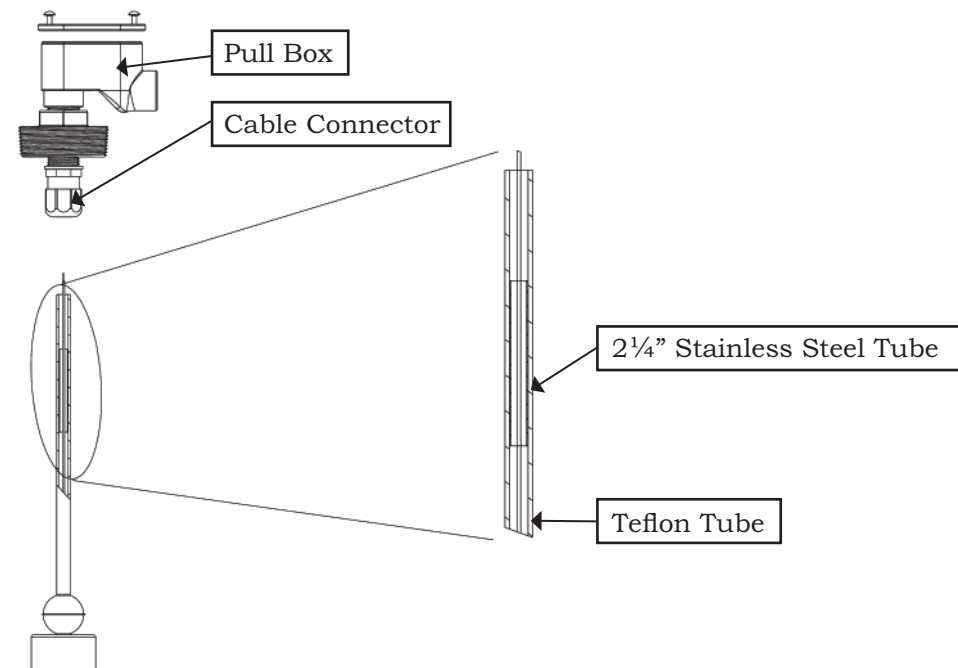
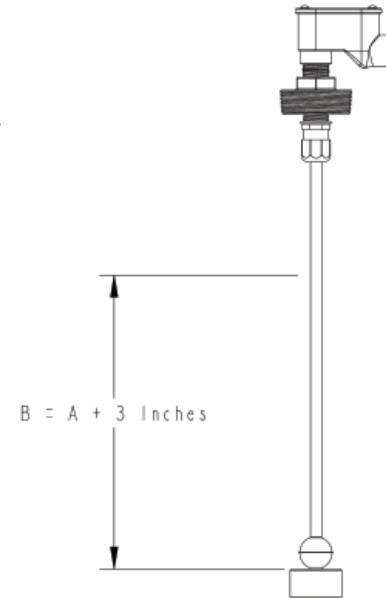
① MEASURING ACTIVATION POINT IN TANK

1. Measure distance from the top of the tank opening to the desired activation level (A) in inches. This dimension will be used to set the probe length accordingly.
2. Make sure you have enough length to get the correct set point:
918TCP0400 AA—Up to 60" Set Point
918TCP0500 AA—Up to 114" Set Point



② SETTING PROBE LENGTH

1. Add 3" to the activation level (A) above to get cut length (B).
2. Mark the Teflon tube at point (B).
3. Disassemble pull box and remove Teflon tubing assembly from cable connector.
4. Feed the wires through the 12" aluminum tube provided and insert aluminum tube into Teflon tube to aid in cutting the Teflon tubing without cutting the wires. After cutting Teflon tube remove the aluminum tube.
5. Replace the 2¼" stainless steel tube at the top of the Teflon tube; inserting the stainless steel tube about 1½" into the Teflon tube.
6. Insert the wires and Teflon tube back into the cable connector and pull box. Make sure the float is situated so the 'NC' marking is at the top, nearest the cable connector. Tighten the cable connector making sure it is placed over the stainless steel tube.

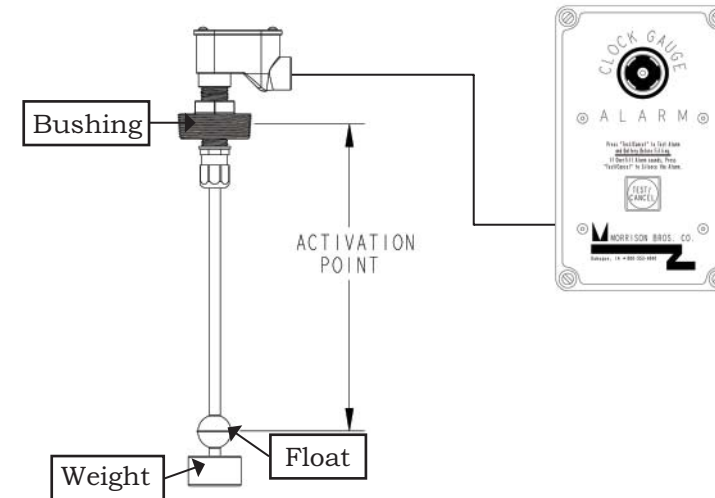


7. Connect the alarm box, with batteries installed, just to verify the activation point.
8. With the float resting on the weight, lift the float up until the alarm sounds. Note where the float is when alarm sounds and silence the alarm. Measure the distance from the middle of the float at the point it activated the alarm to the middle of the bushing.



WARNING: If alarm is not activated, wires may have been sliced, cut and/or damaged. Do not use if alarm is not activated.

9. Compare this measurement to the value in Step 1, activation level (A). If necessary the assembly can be adjusted slightly by loosening the cable connector and moving the tubing as necessary, making sure the cable connector remains placed over the stainless steel tube for compression. Make sure cable connector is secured by pulling on the Teflon tubing, tighten if loose.



10. Disconnect the alarm box and prepare to install unit in tank.

③ PROBE INSTALLATION - Fig 918TCP

Unit mounts on top of an aboveground storage tank with a 2" NPT Connection.

WARNING: High/Low Level Alarm requirements may differ from one location to the next. Be sure to follow all Federal, State, and Local Code Requirements governing this installation.

INSTALLATION

1. Tighten the liquid tight cord grip below the double tap bushing.
2. Tug on the Teflon tubing to make sure that the liquid tight cord grip has secured tubing.
3. Apply a non-hardening fuel resistant pipe sealant to the threads on the 2" NPT double tap bushing.
4. Uncoil the sensor and slowly lower the weight end of the sensor into the tank.
5. Thread the bushing into tank bung and tighten until secure.

WIRING

IMPORTANT: Wiring must be performed by a qualified technician, licensed by the appropriate local, state and federal authority. All appropriate precautions and electrical codes should be followed.



WARNING: Interconnect wiring between the Sensor and its destination must be kept isolated and separate from other wiring. This wiring must not share any junction box, conduit, raceway or fixtures with circuits other than those defined by NEC as being intrinsically safe for all Class 1 locations.

1. All wires should run in conduit as appropriate per local, state, and federal codes.
2. The wires must be #18-22 AWG fuel and oil resistant wire.