

## Installation Guide

### Introduction








This guide contains instructions to install a grounding clamp onto an installed PLLD Transducer.

### Related Documents






- 576013-902 PLLD Installation Guide
- 576013-879 TLS-3XX Site Prep
- 577013-879 TLS-450 Site Prep

### Safety Precautions

The following safety symbols may be used throughout this manual to alert you to important safety hazards and precautions.

	<p><b>EXPLOSIVE</b> Fuels and their vapors are extremely explosive if ignited.</p>		<p><b>FLAMMABLE</b> Fuels and their vapors are extremely flammable.</p>
	<p><b>ELECTRICITY</b> High voltage exists in, and is supplied to, the device. A potential shock hazard exists.</p>		<p><b>TURN POWER OFF</b> Live power to a device creates a potential shock hazard. Turn Off power to the device and associated accessories when servicing the unit.</p>
	<p><b>WARNING</b> Heed the adjacent instructions to avoid damage to equipment, property, environment or personal injury.</p>		<p><b>USE SAFETY BARRICADES</b> Unauthorized people or vehicles in the work area are dangerous. Always use safety cones or barricades, safety tape, and your vehicle to block the work area.</p>
	<p><b>READ ALL RELATED MANUALS</b> Knowledge of all related procedures before you begin work is important. Read and understand all manuals thoroughly. If you do not understand a procedure, ask someone who does.</p>		

## ⚠ WARNING

 	<p><b>This product is to be installed and operated in the highly combustible environment of a gasoline tank where flammable liquids and explosive vapors may be present.</b></p> <p><b>FAILURE TO COMPLY WITH THE FOLLOWING WARNINGS AND SAFETY PRECAUTIONS COULD CAUSE DAMAGE TO PROPERTY, ENVIRONMENT, RESULTING IN SERIOUS INJURY OR DEATH.</b></p> <p><b>Observe the following precautions:</b></p> <ol style="list-style-type: none"> <li><b>1. Read and follow all instructions in this manual, including all safety warnings.</b></li> <li><b>2. To be installed in accordance with the National Electrical Code (NFPA 70) and the Code for Motor Fuel Dispensing Facilities and Repair Garages (NFPA 30A).</b></li> <li><b>3. Before installing this device, turn Off, tag/lock out power to the system, including console and submersible pumps.</b></li> <li><b>4. To protect yourself and others from being struck by vehicles, block off your work area during installation or service.</b></li> </ol>
	
 	

## Kit Contents

Veeder-Root parts required to install the PLLD Transducer grounding clamp are listed in Table 1.

Table 1. PLLD Grounding Kit (Part Number 330020-285)

Item	Qty.	Description	P/N
1	1	Clamp grounding	331285-002
2	1	Ring terminal - 1/4", 12-10 AWG	576048-061
3	1	1/4"-20 x 1.00 " bolt	514100-407
4	1	1/4"-20 nut hx sst w/lock washer	511000-251
5	1	PLLD Grounding Clamp Installation Guide	577014-012

## Installation Steps



**FAILURE TO FOLLOW THE STEPS BELOW MAY IMPAIR INTRINSIC SAFETY, CAUSE DAMAGE TO PROPERTY, ENVIRONMENT, RESULTING IN SERIOUS INJURY OR DEATH**



1. Before installing this device, turn Off, tag/lock out power to the system, including console and submersible pumps.



2. A separate 4mm<sup>2</sup> (minimum) wire must be run from the site earth ground to the STP sump in a non-intrinsically safe conduit or duct (see Figure 1). **DO NOT CONNECT THE CLAMP OR BODY OF THE PLLD PRESSURE SENSOR TO ANY INTRINSICALLY SAFE WIRE THAT CONNECTS TO THE TLS CONSOLE.**

3. Using the ring terminal supplied in the kit, insert the stripped ground wire into the barrel of the ring terminal.

4. Use a properly sized crimping tool to ensure a good tight bond (see Figure 2).

5. Place the clamp around the sensor and attach the ring terminal to the clamp with the clamp bolt.

6. Securely tighten the clamp bolt until the clamp tightly grips the sensor body and no longer can be rotated by hand.

7. Confirm continuity between the PLLD sensor body and ground at the electrical panel and between the electrical panel to the TLS console chassis (reference Figure 3).

Recommended Earth Layout for PLLD sites

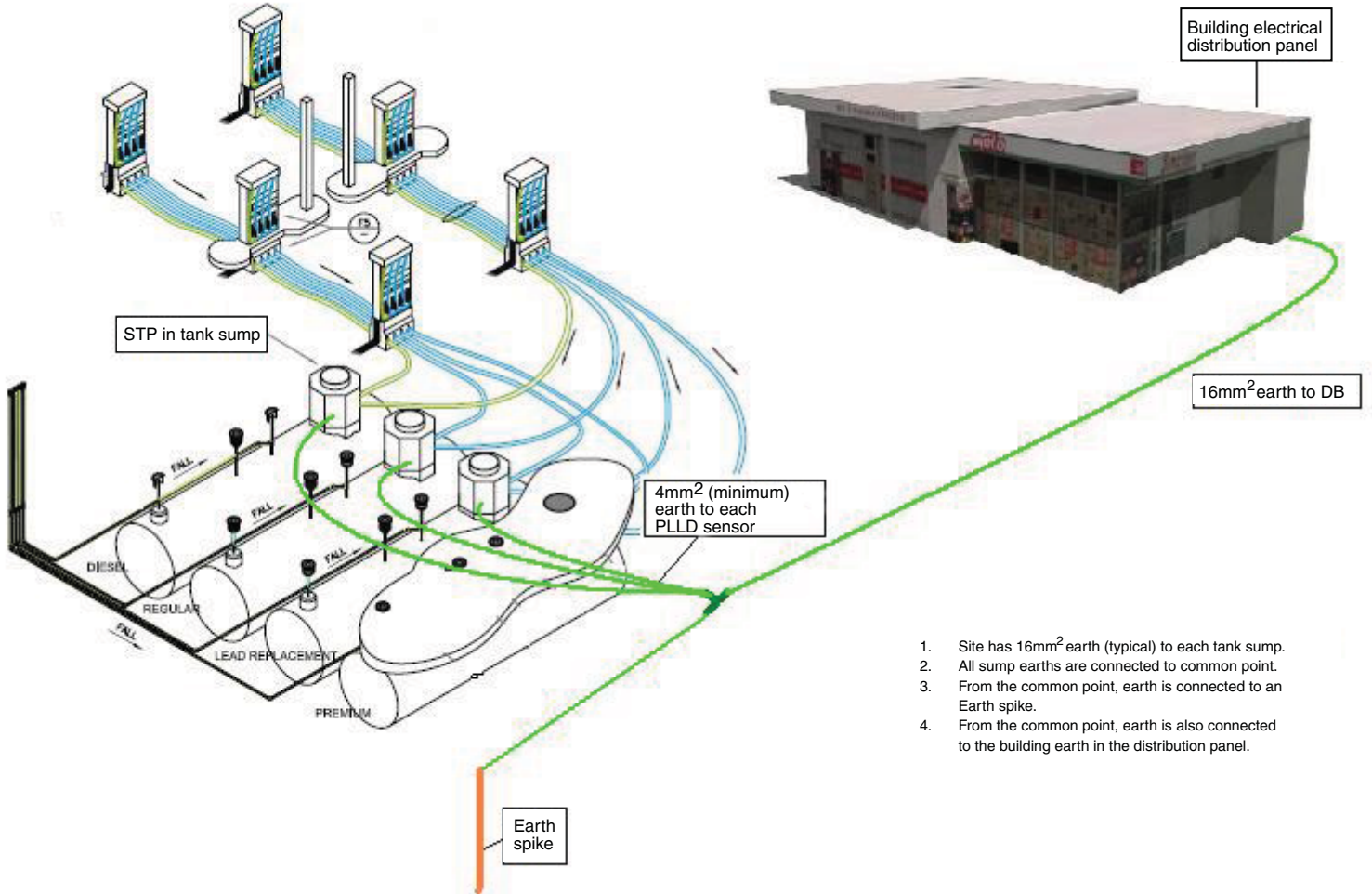


Figure 1.

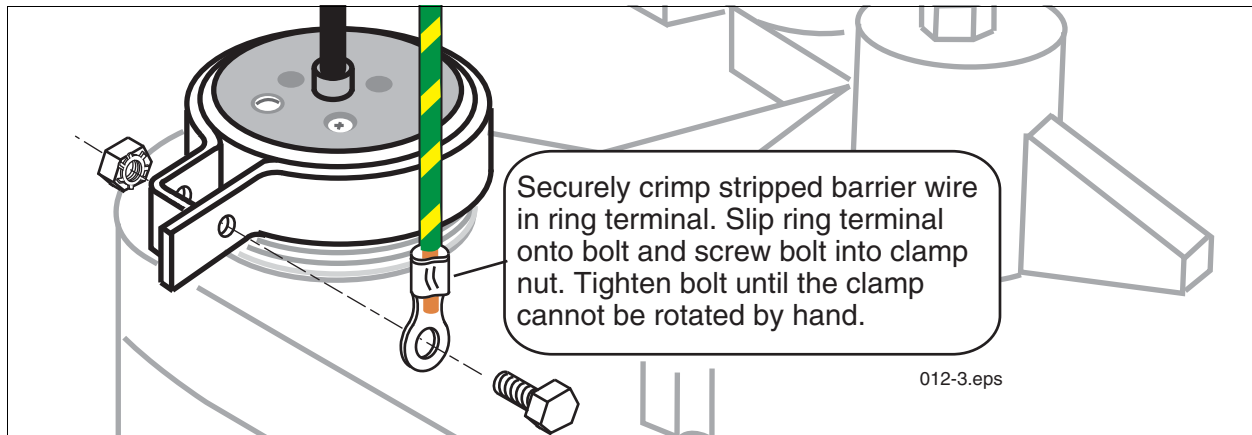


Figure 2.

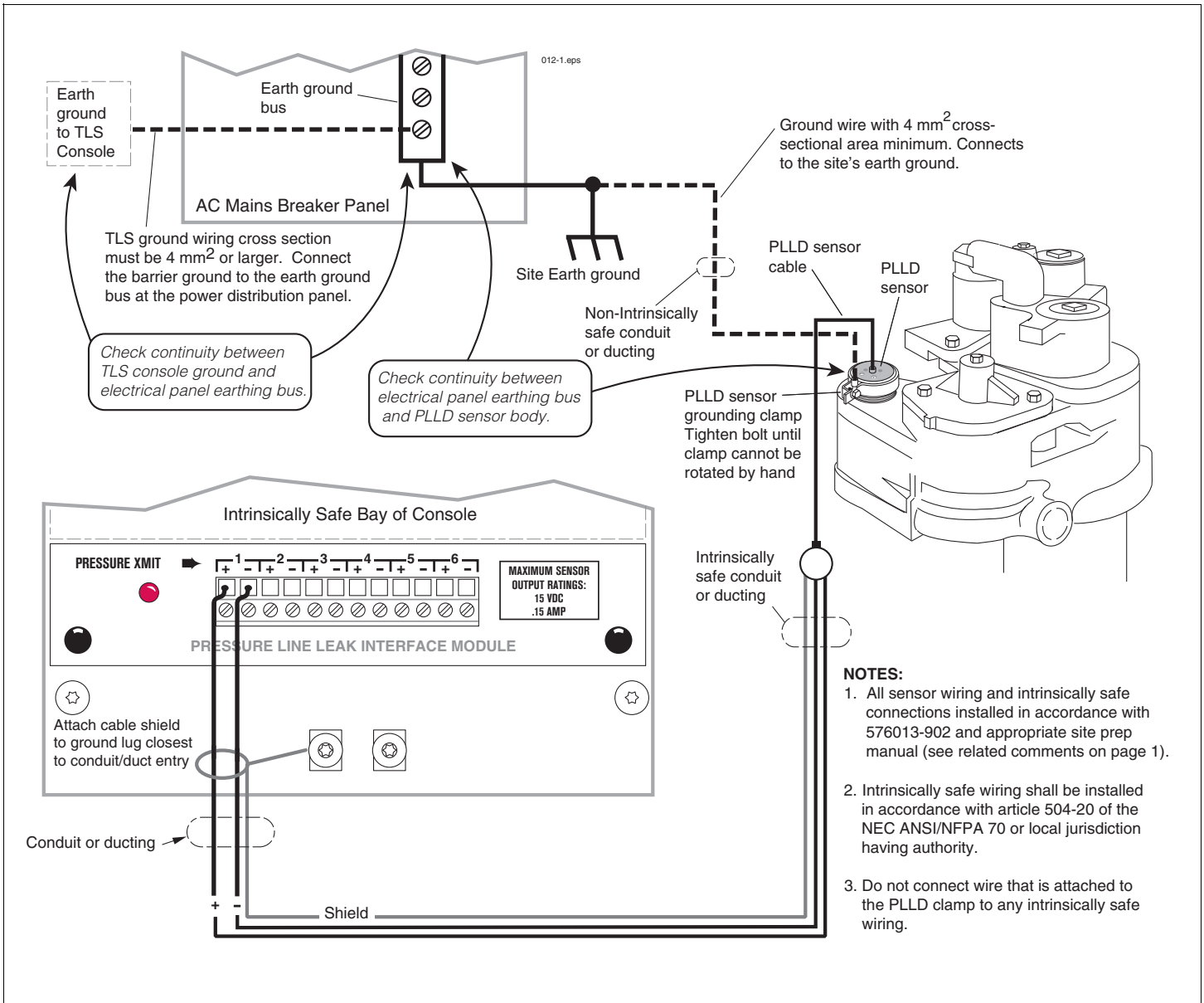


Figure 3.