FOGRod & LIT-100 QUICK START, *DO'S AND DON'TS*

CORRECT INSTALLATION METHODS

Wires are kept as short as possible and NOT routed near AC Power wires

PANEL GROUND

8" or less long. Keep away from AC Power wires.

LIT-100 POWER

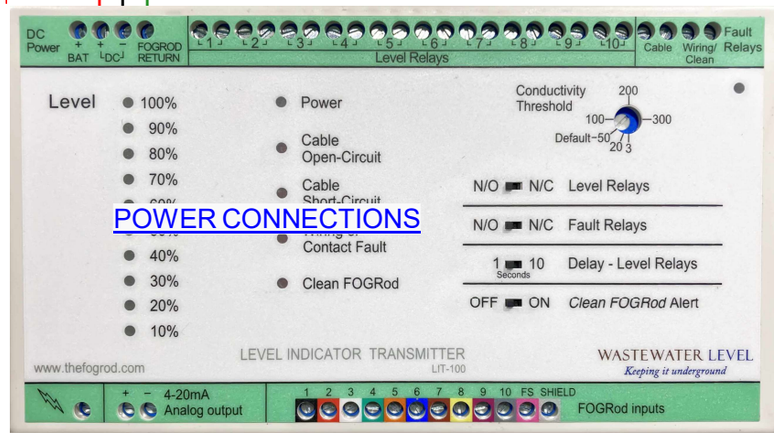
12vdc or 24vdc 6 watts min. GROUND ISOLATED (#1)

NEVER connect other devices to this supply

The LIT-100/FOGRod system will NOT function properly unless the FOGRod Return connection is made. Keep this wire less than 8 inches long.

USE TWO SUPPLIES!
#1 for the LIT-100 and
#2 for the 4-20mA Output

ROUTE THESE WIRES AWAY FROM AC POWER WIRES:
*FOGRod Return wire
*LIT-100 DC +/- wires
*4-20mA Output wires



4-20mA LOOP POWER

12vdc or 24vdc 50mA min. GROUND ISOLATED (#2)

NEVER connect other devices to this supply

Always use a shielded type cable, like LAN cable, when connecting to the 4-20mA Analog Output.

PLC OR OTHER TRANSDUCER MONITORING EQUIPMENT

If the PLC does not provide 4-20mA loop power, use an external supply as shown.

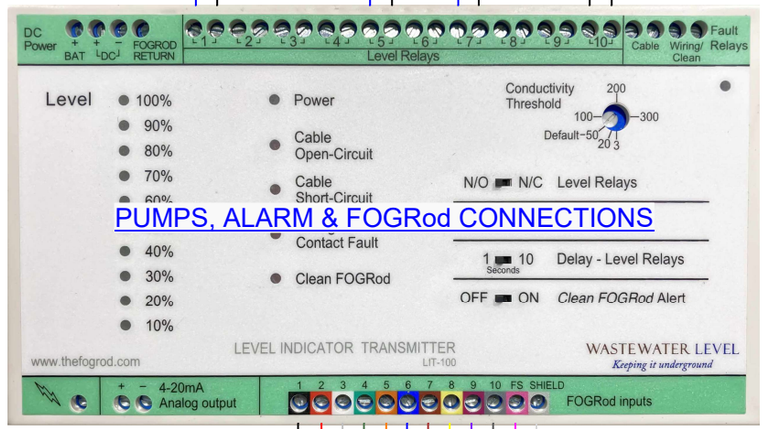
Always use the screwdriver provided with each LIT-100. DO NOT over tighten the screws.

RECOMMENDED PUMP CONNECTIONS

120vac HOT or the appropriate voltage for your pump latching control device.

TO PUMP OFF LATCHING CONTROLLER
TO LEAD PUMP ON LATCHING CONTROLLER
TO LAG PUMP ON LATCHING CONTROLLER
ALARM VOLTAGE (HOT)
HIGH LEVEL ALARM

The LIT-100 does NOT provide pump ALTERNATION or pump LATCHING functions.



OPTION #1
FOGRod CABLE comes directly from FOGRod with NO splices or ISBs.

Bare Wire electrically connected to braid inside cable

BRAID is trimmed neatly back to the cable jacket.

**1*

Wastewater Level Cable Splice Kit PN: FOG-CSS
-OR- dedicated METAL junction box.

OPTION #2
FOGRod CABLE direct from FOGRod is spliced to another length of SHIELDED cable to extend length.

BRAID is trimmed neatly back to the cable jacket.

Only 1 of 11 wires is shown for clarity. Bare shield wire is also shown.

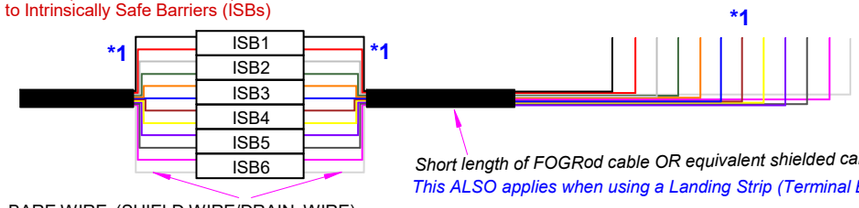
**1*

Use ONLY FOGRod cable OR equivalent shielded cable.

Keep the individual FOGRod wires less than 6 inches long. Do not route AC power wires near the FOGRod wires. Make sure the bare drain wire is connected into the shield input.

**1*

OPTION #3
FOGRod CABLE (direct from FOGRod) connects to Intrinsically Safe Barriers (ISBs)



BARE WIRE (SHIELD WIRE/DRAIN WIRE)

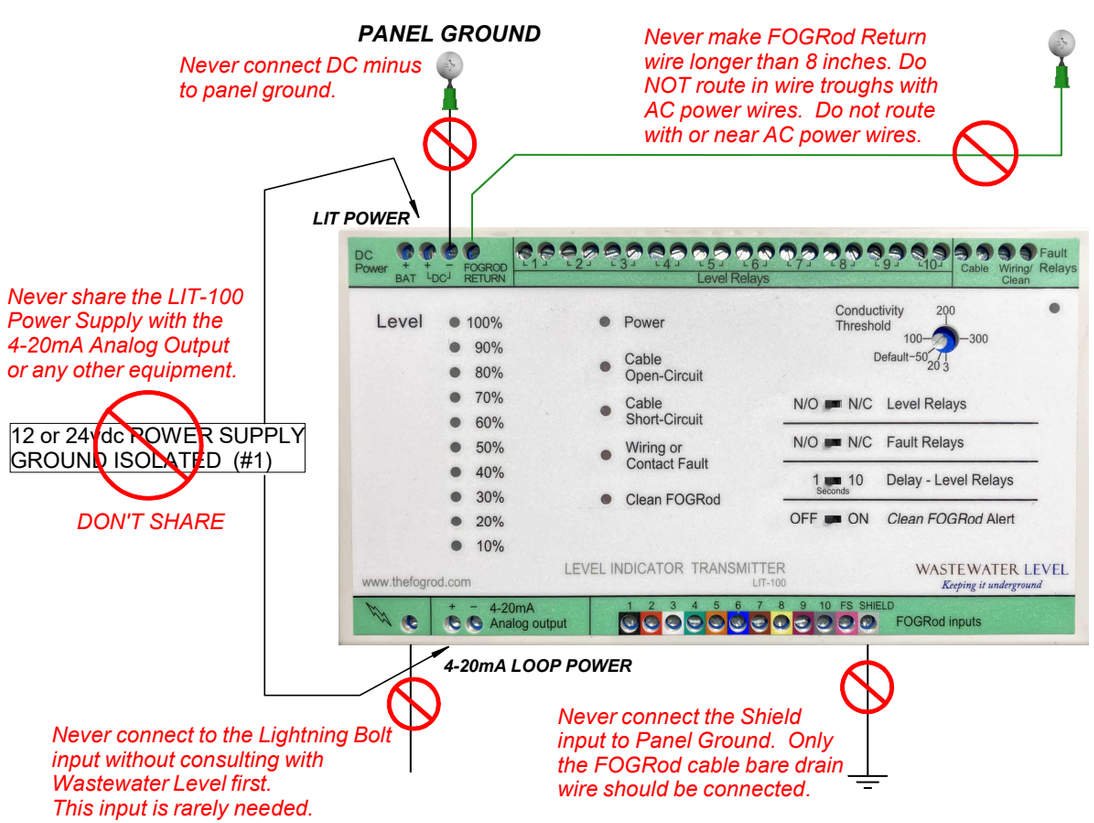
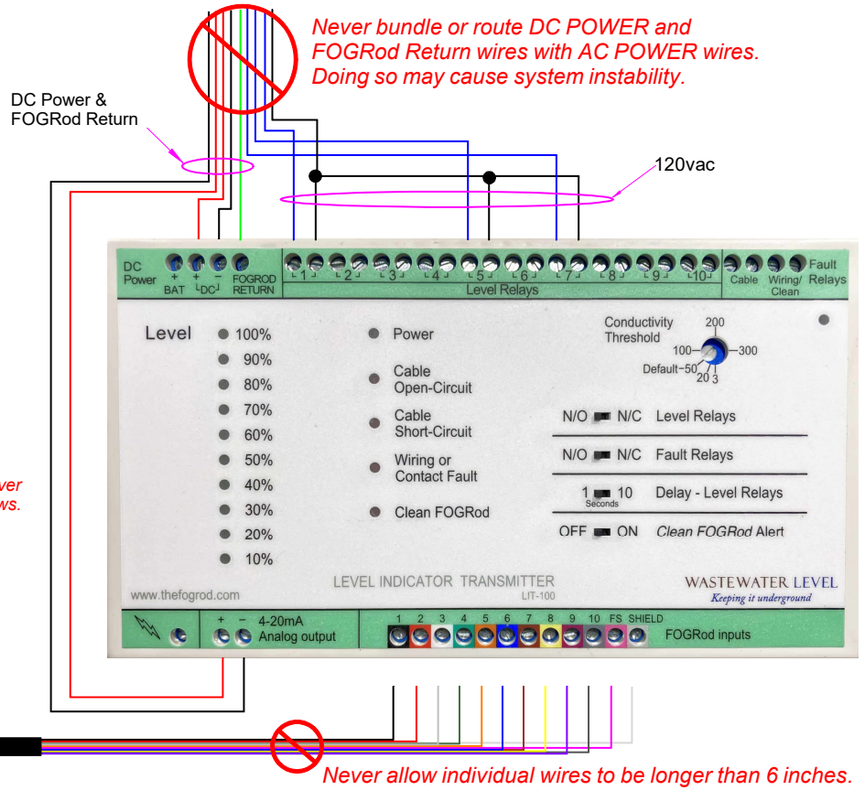
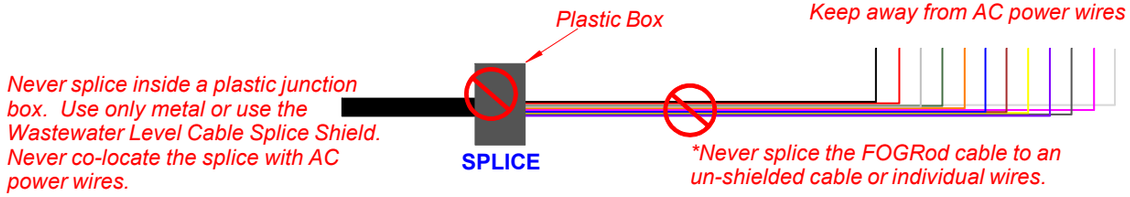
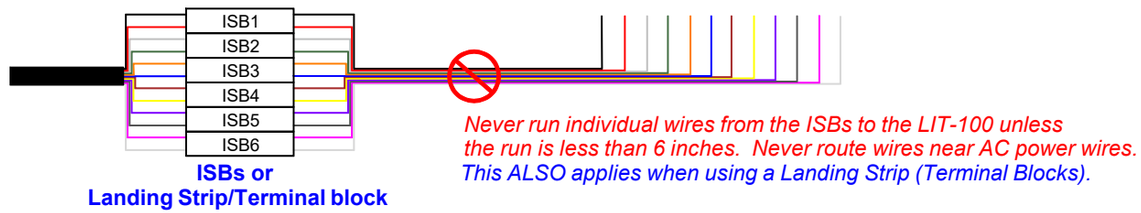
Short length of FOGRod cable OR equivalent shielded cable.
This ALSO applies when using a Landing Strip (Terminal Blocks) inside the panel.

MOST COMMON SETTINGS

Conductivity Threshold	50 150	-Default setting for typical waste water well. -Approximate setting for wells that get fresh water run-off.
Level Relays	N/O	Relay contacts close when level is detected. Most sites use this setting.
Fault Relays	N/O	Relay contacts close when a fault is detected. Most sites use this setting.
Delay-Level Relays	1 10	-Use this setting when bringing up site or while troubleshooting. -Use this setting during normal operation.
Clean FOGRod Alert	OFF ON RESET	-Use this setting if the well doesn't have rags, paper etc or during initial install or troubleshooting. -Use this setting if the well has rags etc that can hang up on the FOGRod. -Once an alert occurs, the alert will stay ON even after the event that caused it goes away. Slide the switch 'OFF' then 'ON' to reset.

FOGRod & LIT-100 QUICK START, *DO'S AND DON'TS*

NEVER DO THESE THINGS



Never use an oversized screwdriver to tighten the terminal block screws. Damage will occur if screws are over tightened. Use the small screwdriver provided with each LIT-100.