

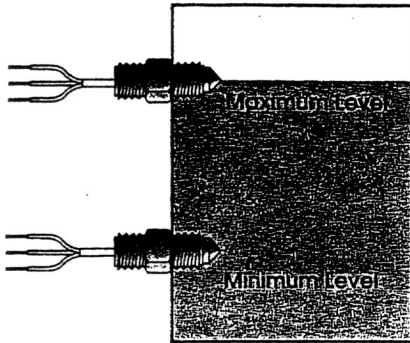
Levelite Optical Liquid Level Systems

LEVELITE

Levelite Sensing Probe Installation

STEP 1 Mounting:

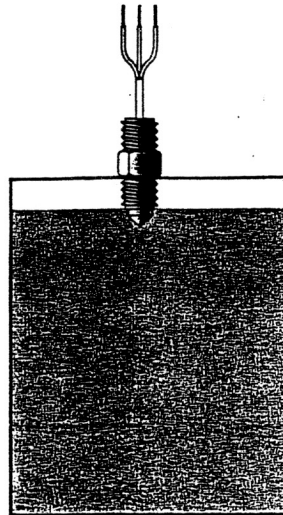
Typical In-Vessel Mounting



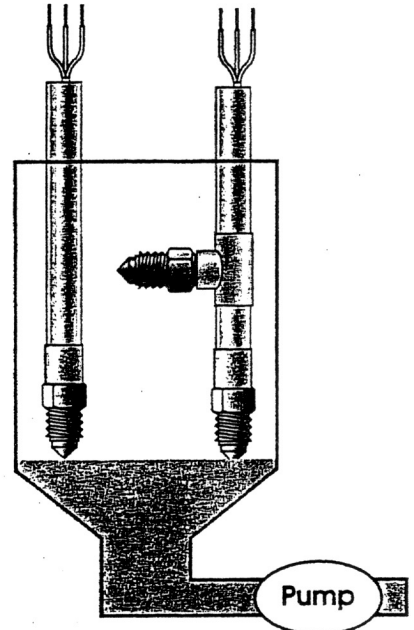
Thread directly into side of tank

- Mount probes in any attitude
- Do not submerge rear of probes (except GLL110000)

- All probes have 1/2" NPT process and conduit connection with the following exceptions:

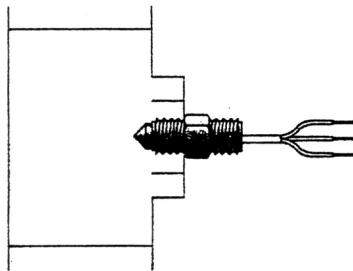


Thread directly into tank top or bottom

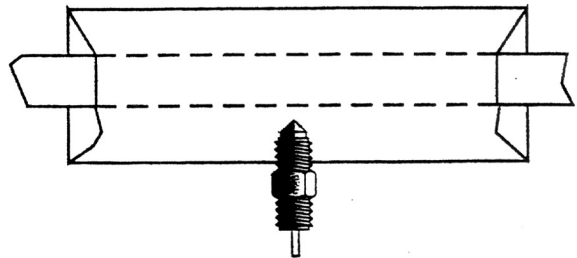


Use 1/2" nominal pipe, coupling, or tee for custom installations

Alternate Mounting



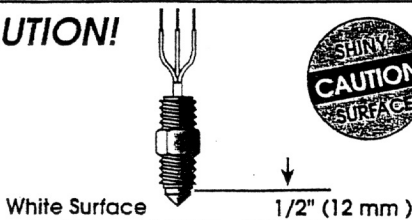
- 1/2" NPT Pipe Tee



- Dual Containment piping

- SEAL THREADS WITH TEFLON SEALANT OR TAPE, DO NOT ALLOW TAPE OR SEALANT TO COVER TIP OF PROBE

CAUTION!



- If mounting tip within 1/2" (12mm) of white or shiny surface, consult factory.

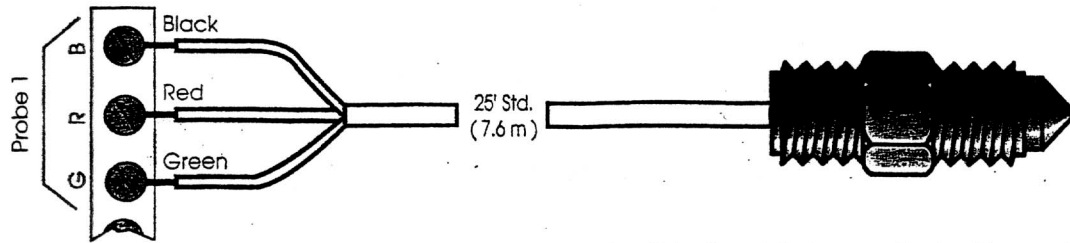
Quartz Tips



- Quartz tips available from 5/8" (16mm) to 10" (254mm)
- Hand tighten seal and then finish last quarter-turn with wrench

STEP 2 Wiring:

Electro Optic Probe Wiring



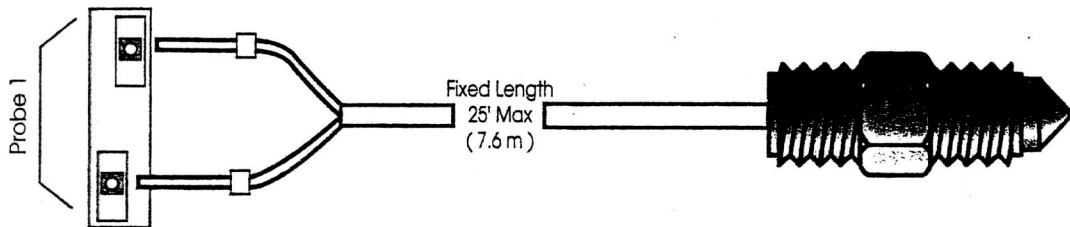
Universal Controller

- 25 ft. (7.6m) cable is supplied with each probe

- All Electro optic probes can be extended to 250 feet (76m) using Belden 8443, 3 conductor 22 gauge (or equivalent)
- Run cable thru conduit, if desired (Do not run with high voltage cables)
- DO NOT APPLY POWER DIRECTLY TO PROBE WIRES

Fiber Optic Probe Connection

P/N GLL110121 thru GLL110132



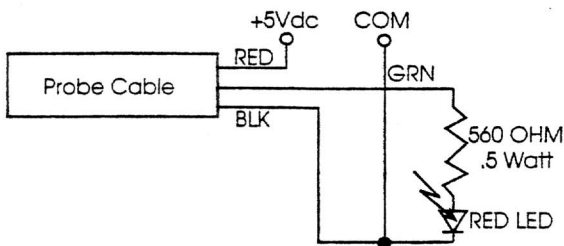
Universal Controller

- Fiber optic cable length not field alterable

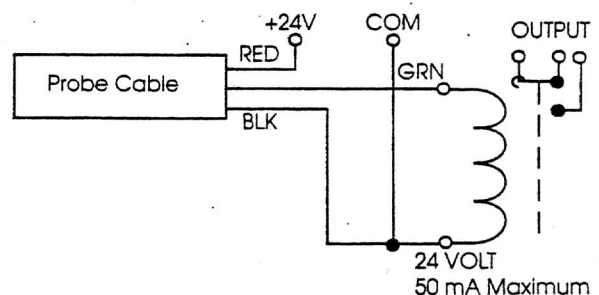
- Plug probe connector(s) into mating connector(s) on Universal Controller
- Orientation of connectors is not important
- Do not bend cable in less than a 1 inch (25.4mm) radius
- Fiber optic cable can be installed with high voltage wiring

Controller Probe Wiring

P/N GLL100240/5Vdc, GLL100250/24Vdc



- Typical wiring for GLL100240/5Vdc



- Typical wiring for GLL100250/24Vdc

- GLL100240/5Vdc, 20 mA maximum - sinking (output low when wet), sourcing (output high when wet)
- GLL100250/12-32 Vdc, 50 mA maximum - sourcing (output high when wet)
- Extend to 1000 feet (300m) using Belden 8443, 3 conductor, 22 gauge (or equivalent)

STEP 3 Calibration and Use:

- No calibration is required at the Levelite probes. Calibration for remote probes is done at the Universal Controller. (Controller probes have a factory set calibration).
- Only Fiber Optic probes should be used in hazardous areas.
- Check probe compatibility including pressure, temperature, and corrosion resistance before using.
- Air bubbles and particles collecting on wet (submerged) probes can cause the probe to appear dry. Readjust Universal Controller sensitivity to compensate.