

Warrick[®] TK-1 and TK-2 Kits Installation and Operation Bulletin

IMPORTANT: Completely read and thoroughly understand these instructions before proceeding to install and wire the control.

Mount Nema enclosure on wall or other solid structure. The maximum distance between the enclosure and the location of the electrodes is 2,200 ft.

A terminal strip is provided for all high voltage connections (as shown on electrical installation drawing). For 120 VAC power supply, wire **SUPPLY** power leads to terminals "L1" and "L2" and the **LOAD** connections to terminals "3" (*normally open*), "4" (*common*) and "5" (*normally closed*).

Terminal pairs 3-4 (normally open) and 4-5 (normally closed) are isolated load contacts. Each contact must be wired in series with its load and the series branch circuit connected across a power source compatible with the load.

Prior to installation of TK control, cut probes to length required for each point. (High level, low level and reference probe as shown on application drawing on Page 2 of this sheet.)

Primary branch circuit protection provided by others. Please refer to Articles 240 and 430 of the National Electrical Code before installing.

Note: All wiring shall be in accordance with the National Electrical Code.

Replacement Parts: Control - 16C1A0 or 16M1A0
Probes - 3T3C4 (Qty 3)



Operating Instructions

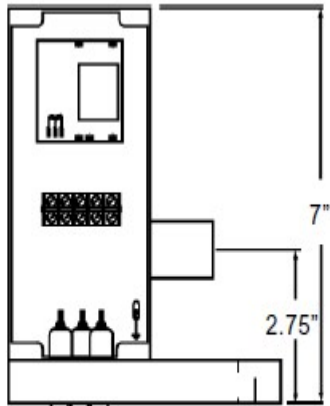
Series TK-1 (Fill Mode): Series TK-1 uses a Series 16 level control. This is an "**INVERSE**" mode control. When supply power is applied to this control, it will energize and the normally open contacts located between terminals 3-4 will close, the normally closed contacts located between terminals 4-5 will open, and the LED will be on.

When the level rises to electrode "H" (high electrode), the level control will de-energize. The normally open contact located between terminals 3-4 will open, the normally closed contacts located between terminals 4-5 will close, and the LED will be off. The LOAD contacts will remain in this state until the level recedes below the low electrode "L", at which time the control will energize and the LED will turn "on" until the level rises to the "H" electrode.

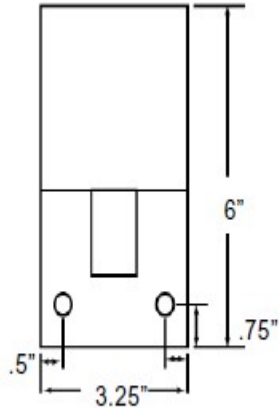
Series TK-2 (Empty Mode): Series TK-2 uses a Series 16 level control. This is a "**DIRECT**" mode control. When supply power is applied, the control will not energize and the LED will be off.

When the level rises to electrode "H" (high electrode), the level control will energize. The normally open contact located between terminals 3-4 will close, the normally closed contacts located between terminals 4-5 will open, and the LED will be on. The LOAD contacts will remain in this state until the level recedes below electrode "L".

Dimensions



Side View

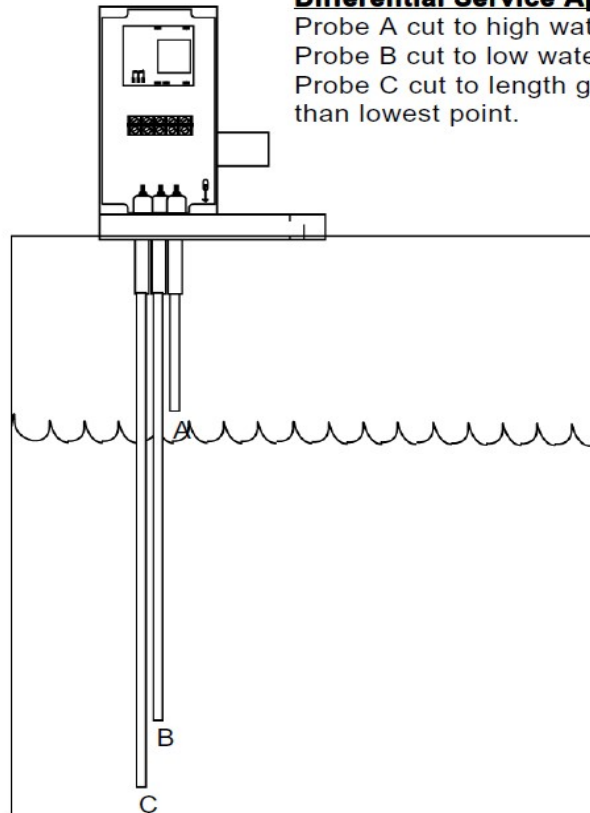


Top View

Application

Differential Service Application

Probe A cut to high water level;
Probe B cut to low water level;
Probe C cut to length greater than lowest point.



Electrical Installation Drawing

