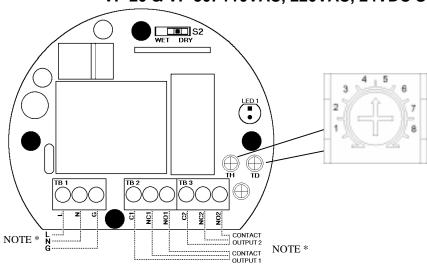
VF-20 & VF-30: 110VAC, 220VAC, 24VDC Series Installation/Instructions



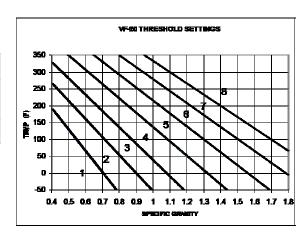


FIGURE 1

- Mount VF series probe in suitable process connection. Verify that the forks will not be within 1/2 inch of any object in the vessel.
- Connect wiring per FIGURE 1 using one of the following operating power options from model # found on housing.

$$/a = /1 - 24 \text{ VDC}^{-1}$$

L: +

N: -

/a = /2 - 120 VAC

L: L1

N: Neutral

/a = /3 - 240 VAC

L: L1

N: L2

G: Ground

VERIFY that the proper operating power is available before energizing unit.

3) The outputs will have the following characteristics depending on the position S2.

S2 in position WET -

The relay will energize when fork is wet and give continuity between C1 and NO1, as well as C2 and NO2. A dry fork will give continuity between C1 and NC1, as well as C2 and NC2.

S2 in position DRY -

The relay will energize when fork is dry and give continuity between C1 and NO1, as well as C2 and NO2. A wet fork will give continuity between C1 and NC1, as well as C2 and NC2.

FIGURE 2

Integral LED indicator conditions:

- a) on continuously when relay is energized.
- b) blink continuously when relay is not energized.
- c) ** off completely if there is a fail condition (see below)
- Apply power to unit after all electrical connections are made.
- 4) ** Possible fail conditions from continuous self test:
 - a) Too much build up on the fork (the forks are bridged and can not vibrate)
 - b) Fork is broken
 - c) Wire is broken
 - d) Circuit is damaged
 - e) Fork is to close to side of vessel (within ½ inch)
- 5) ** TIME DELAY (TD) adjustment
 Adjusting the time delay will change the time it takes
 to switch from one state to another.
 10 second delay; TD adjusted fully clockwise
 100 millisecond delay; TD adjusted fully counter
 clockwise
- 6) THRESHOLD (TH) adjustment Factory setting works fine, but for optimal switching (switching when 50% of fork is covered) adjust the threshold adjustment according to FIGURE 2.
- 7) Check out the unit by raising and lowering the liquid in the vessel. Verify that the contacts switch upon WET or DRY fork sensor conditions.

K-TEK

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^{*} WARNING: Use supply wires suitable for 61° C above surrounding ambient

^{**} only the VF-30 has a time delay and continuous self test with a fail mode