

# Installation Instructions

## Type 31618

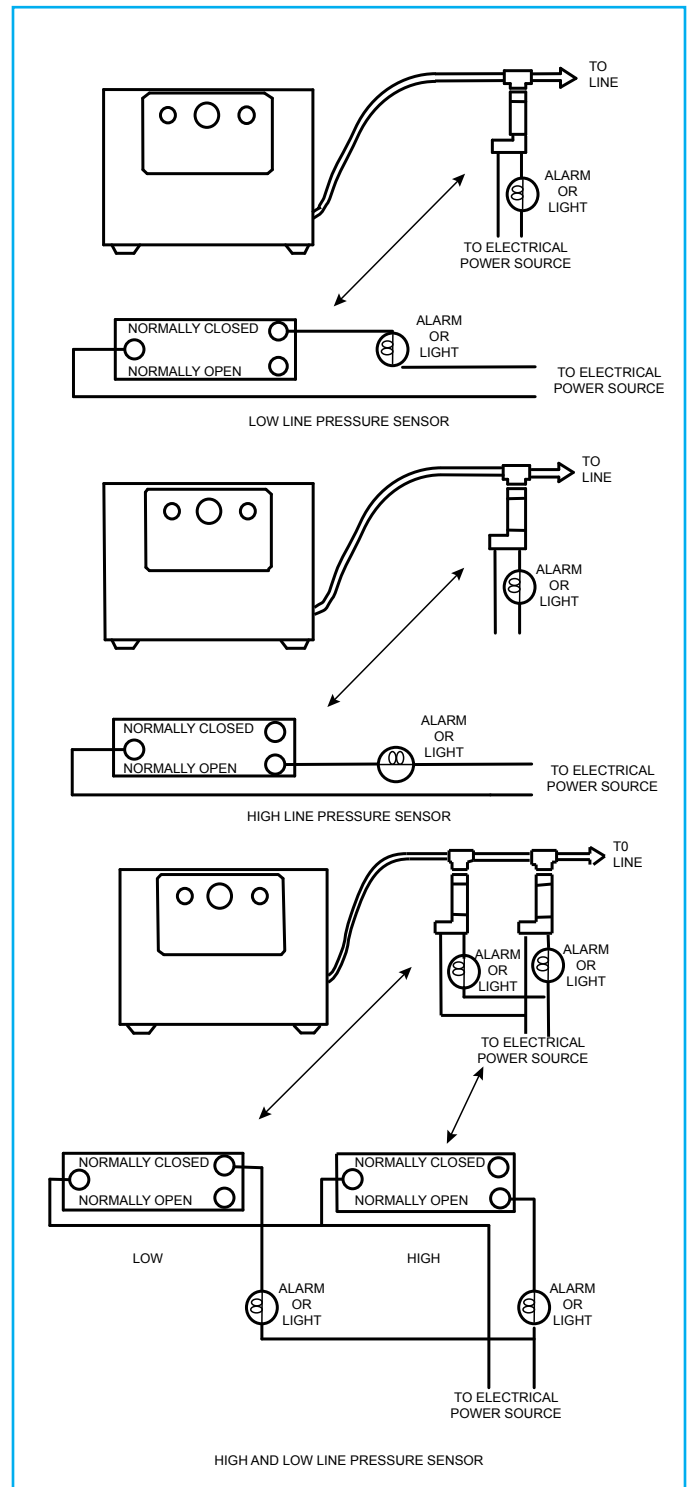
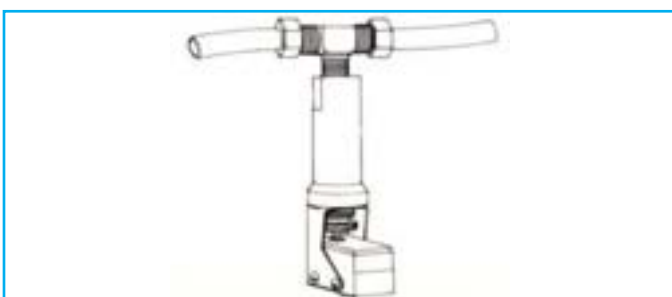
### Pressure Sensor



The Type 31618 Sensor is a pressure sensitive contact switch used to activate a remote warning light or alarm at a preset pressure. It can be used either above or below the automatic dehydrator operating range of 3 - 8 lb./sq. in. (0.2 - 0.6 kg/sq. cm). Unless otherwise specified, sensors to be used for low pressure warning are factory set for 1-1/2 lb./sq. in. (0.1 kg/sq. cm) and those for high pressure operation are set for 10 lb./sq. in. (0.7 kg/sq. cm). When both low and high pressure warnings are desired, a pair of units are required.

#### READ THE INSTRUCTIONS THOROUGHLY BEFORE ASSEMBLY

- STEP 1.** Apply pipe thread compound to center threads of tee, then add tee to sensor and tighten.
- STEP 2.** Select suitable location near dehydrator where sensor can be mounted. Cut dehydrator tubing to length adequate for connection to sensor. Apply fitting to end of polyethylene tubing then make connection to tee. Refer to Bulletin 17789 for fitting application.
- STEP 3.** Connect length of tubing between free end of tee and transmission line. If two sensors are used, connect them in series with short piece of tubing between tees.
- STEP 4.** Attach leads from warning light or alarm and electrical source to sensor for high or low pressure operation as shown in illustration. Low pressure sensor is wired to "normally closed" terminal and high pressure sensor is wired to "normally open" terminal.
- STEP 5.** Adjustments. When other than factory setting is desired, sensor can be set in following manner:
- Turn knurled adjustment wheel until there is slight gap between contact points. Use screwdriver or similar tool as lever; tension has been provided to insure tight set point.
  - Apply desired warning pressure to sensor.
  - Turn adjustment wheel counterclockwise until microswitch is activated.



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