



## QD Pumptec and Pumptec

QD Pumptec and Pumptec are load sensing devices that monitor the load on submersible pumps/motors. If the load drops below a preset level for a minimum of 4 seconds the QD Pumptec or the Pumptec will shut off the motor.

The QD Pumptec is designed and calibrated expressly for use on Franklin Electric 230 V 3-wire motors (1/3 to 1 hp.) The QD Pumptec must be installed in QD relay boxes.

The Pumptec is designed for use on Franklin Electric 2- and 3-wire motors (1/3 to 1.5 hp) 115 and 230 V. The Pumptec is not designed for jet pumps.

### QD Pumptec & Pumptec – Troubleshooting

SYMPTOM	CHECKS OR SOLUTION
<p>If the QD Pumptec or Pumptec trips in about 4 seconds with some water delivery.</p>	<ul style="list-style-type: none"> <li>A. Is the voltage less than 90% of nameplate rating?</li> <li>B. Are the pump and motor correctly matched?</li> <li>C. Is the <b>QD Pumptec</b> or <b>Pumptec</b> wired correctly? For the <b>Pumptec</b> check the wiring diagram and pay special attention to the positioning of the power lead (230 V or 115 V).</li> <li>D. For <b>QD Pumptec</b> is your system 230 V 60 Hz or 220 V 50 Hz?</li> </ul>
<p>If the QD Pumptec or Pumptec trips in about 4 seconds with no water delivery.</p>	<ul style="list-style-type: none"> <li>A. The pump may be airlocked. If there is a check valve on top of the pump, put another section of pipe between the pump and the check valve.</li> <li>B. The pump may be out of water.</li> <li>C. Check the valve settings. The pump may be dead-heading.</li> <li>D. Pump or motor shaft may be broken.</li> <li>E. Motor overload may be tripped. Check the motor current (amperage).</li> </ul>
<p>If the QD Pumptec or Pumptec will not timeout and reset.</p>	<ul style="list-style-type: none"> <li>A. Check switch position on side of circuit board on <b>Pumptec</b>. <b>QD Pumptec</b> check timer position on top/front of unit. Make sure the switch is not between settings.</li> <li>B. If the reset time switch is set to manual reset (position 0), <b>QD Pumptec</b> and <b>Pumptec</b> will not reset (turn power off for 5 sec. then back on to reset).</li> </ul>
<p>If your pump/motor will not run at all.</p>	<ul style="list-style-type: none"> <li>A. Check voltage.</li> <li>B. Check wiring.</li> <li>C. Remove the <b>QD Pumptec</b> from the control box. Reconnect wires in box to original state. If motor does not run the problem is not <b>QD Pumptec</b>. Bypass <b>Pumptec</b> by connecting L2 and motor lead with jumper. Motor should run. If not, the problem is not <b>Pumptec</b>.</li> <li>D. On <b>Pumptec</b> only check that <b>Pumptec</b> is installed between the control switch and the motor.</li> </ul>
<p>If your QD Pumptec or Pumptec will not trip when the pump breaks suction.</p>	<ul style="list-style-type: none"> <li>A. Be sure you have a Franklin motor.</li> <li>B. Check wiring connections. On <b>Pumptec</b> is lead power (230 V or 115 V) connected to correct terminal? Is motor lead connected to correct terminal?</li> <li>C. Check for ground fault in the motor and excessive friction in the pump.</li> <li>D. The well may be “gulping” enough water to keep <b>QD Pumptec</b> or <b>Pumptec</b> from tripping. It may be necessary to adjust the <b>QD Pumptec</b> or the <b>Pumptec</b> for these extreme applications. Call the Franklin Electric Service Hotline at 800-348-2420 for information.</li> <li>E. On <b>Pumptec</b> applications does the control box have a run capacitor? If so, <b>Pumptec</b> will not trip. (Except for Franklin 1.5 hp motors).</li> </ul>
<p>If your QD Pumptec or Pumptec chatters when running.</p>	<ul style="list-style-type: none"> <li>A. Check for low voltage.</li> <li>B. Check for waterlogged tank. Rapid cycling for any reason can cause the <b>QD Pumptec</b> or the <b>Pumptec</b> relay to chatter.</li> <li>C. On <b>Pumptec</b> make sure the L2 and motor wires are installed correctly. If they are reversed, the unit can chatter.</li> </ul>