



# Electronic Products

ELECTRONIC MAINTENANCE

## SubMonitor

### SubMonitor Troubleshooting

FAULT MESSAGE	PROBLEM/CONDITION	POSSIBLE CAUSE
<b>SF Amps Set Too High</b>	SF Amps setting above 359 Amps	Motor SF Amps not entered
<b>Phase Reversal</b>	Reversed incoming voltage phase sequence	Incoming power problem
<b>Underload</b>	Normal line current	Wrong SF Max Amps setting
	Low line current	Over pumping well Clogged pump intake Closed valve Loose pump impeller Broken shaft or coupling Phase loss
<b>Overload</b>	Normal line current	Wrong SF Max Amps setting
	High line current	High or low line voltage Ground fault Pump or motor dragging Motor stalled or bound pump
<b>Overheat</b>	Motor temperature sensor has detected excess motor temperature	High or low line voltage Motor is overloaded Excessive current unbalance Poor motor cooling High water temperature Excessive electrical noise (VFD in close proximity)
<b>Unbalance</b>	Current difference between any two legs exceeds programmed setting	Phase loss. Unbalanced power supply. Open Delta transformer.
<b>Overvoltage</b>	Line voltage exceeds programmed setting	Unstable power supply.
<b>Undervoltage</b>	Line voltage below programmed setting	Poor connection in motor power circuit. Unstable or weak power supply.
<b>False Starts</b>	Power has been interrupted too many times in a 10 second period	Chattering contacts. Loose connections in motor power circuit. Arcing contacts.