



AMERICAN

Manufacturing Company, Inc.

PRE CHARGED PUMP CONTROLS

"P" SERIES

The "P" series pump control panel shall be equipped with three pressure switches to automatically control the pre-charged tank's water pressure level and two liquid level relays for low well cut-off. As water is removed from the tank, the pressure will drop until it reaches the "Lead Pump On" setpoint on Pressure Switch No.1. The lead well pump will activate and continue to run until the pressure reaches the "Pumps Off" setpoint on Pressure Switch No. 1, at which time the pump will cut off. The control will then alternate the lead pump. If the pressure continues to drop and reaches the "Lag Pump On" setpoint on Pressure Switch No. 2, the lag pump will activate, and both pumps will continue to run until the pressure reaches the "Pumps Off" setpoint again on Pressure Switch No.1.

The panel shall be equipped with "Low Hydro Pressure" and "Low Well Level" alarms. The "Low Hydro Pressure" alarm shall be sensed by a third pressure switch contained within the panel. If the pressure continues to drop and reaches the "Low Pressure" setpoint on Pressure Switch No. 3, the audio/visual alarms will activate and be latched in until manually reset. The "Low Well Level" alarm shall be sensed by three suspended electrodes in each well. If the well level drops below the "Low Well Level" (Middle) electrode, the well pump(s) will cut out, and the audio/visual alarms will activate and be latched in until manually reset. The well pump(s) will remain locked out until the well level reaches the "Restore" (Top) electrode, at which time the well pumps will be allowed to run again. The "Gnd" (Bottom) probe is for reference purposes only.



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Basic "P" Pump Control Includes:

- NEMA 12 steel enclosure w/hinged door
- Removable painted steel backplate for component mounting
- Pilot output contacts ea. Pump 10A @ 115V, 5A @ 230V
- Bourdon tube type pressure switch(es)
- Door mounted 4" pressure gauge
- 1/4" Female NPT pressure inlet
- Hand-Off-Auto toggle switch ea. pump
- Pump run indicator light ea. pump
- 2A control fuse
- Field wire terminal blocks
- Neatly bundled wiring harness
- 115V Control transformer w/fused secondary (Three-phase units only)
- U.L APPROVED AND LABELED

Alarm Feature (if desired) Includes:

- Test-Off-Normal toggle switch each alarm
- Alarm Indicator Light each alarm
- Bourdon tube type pressure switch (ea. pressure type alarm)
- Low voltage liquid level relay (ea. electrode type alarm)
- Top mounted red Lexan alarm light (Outdoor units only)
- Dry remote alarm contacts

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Breaker Feature Includes:

For units without alarm: -Molded case circuit breaker ea. pump

-Molded case control circuit breaker

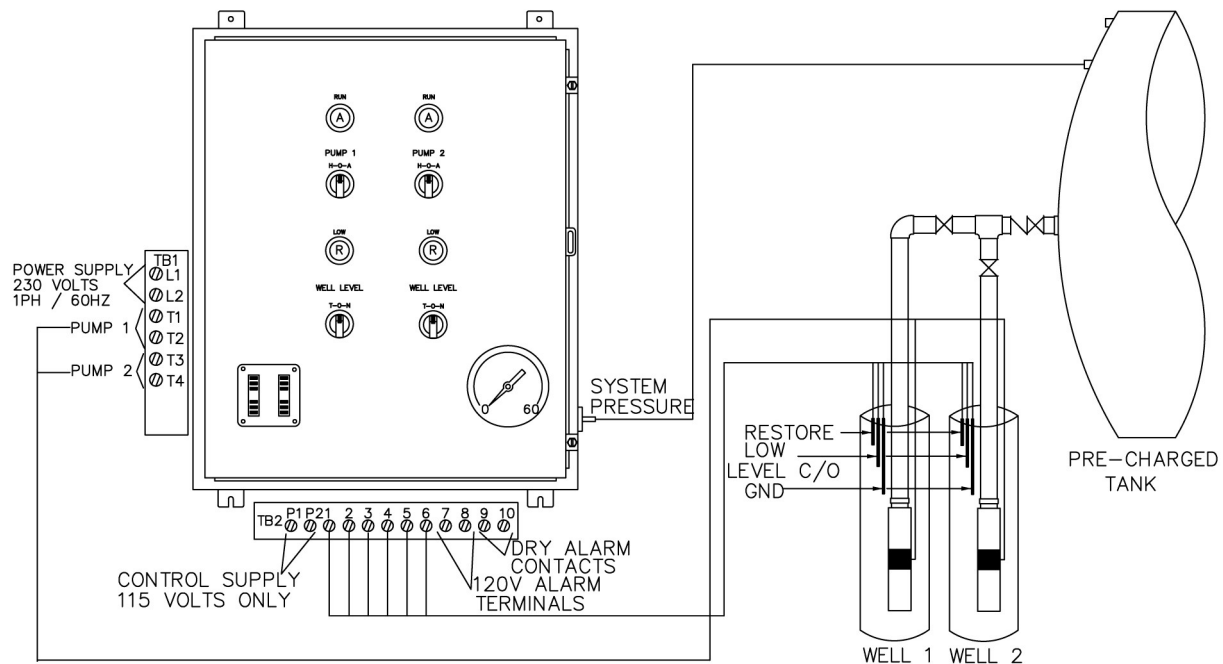
For units with alarm: -Molded case circuit breaker ea. pump

-Molded case alarm/control breaker

For 3-phase units:

-Motor protector for ea. pump (combination short circuit/overload)

-Molded case alarm/control breaker



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