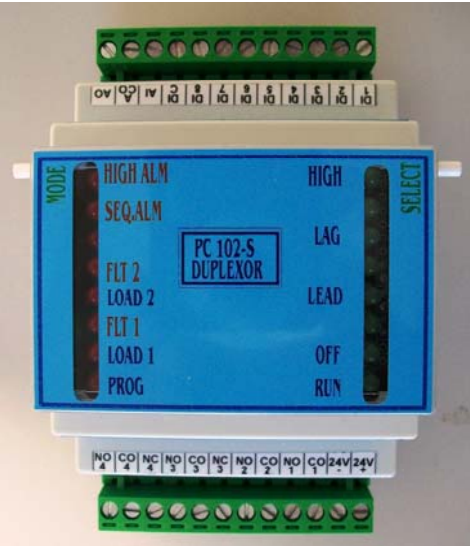


**PC100S SERIES FLOAT/SWITCH
OPERATED PUMP CONTROLLERS**

- Microprocessor Based
- Alternating Pump Controller
- Duplex, Triplexing and Quadraplex Models
- 16 Status Indicating LED's
- 1 Analog Input and Output (4-20Ma) (Optional)
- 8 Digital Inputs
- 4 10A Relay Outputs
- Removable Barrier Terminals
- RS 485 Modbus Port (Networkable)
- Custom Programming Available
- Primary or Backup Control
- User Programmable
- Din Rail Mount
- 24 VDC Power

CAUS (Pending)



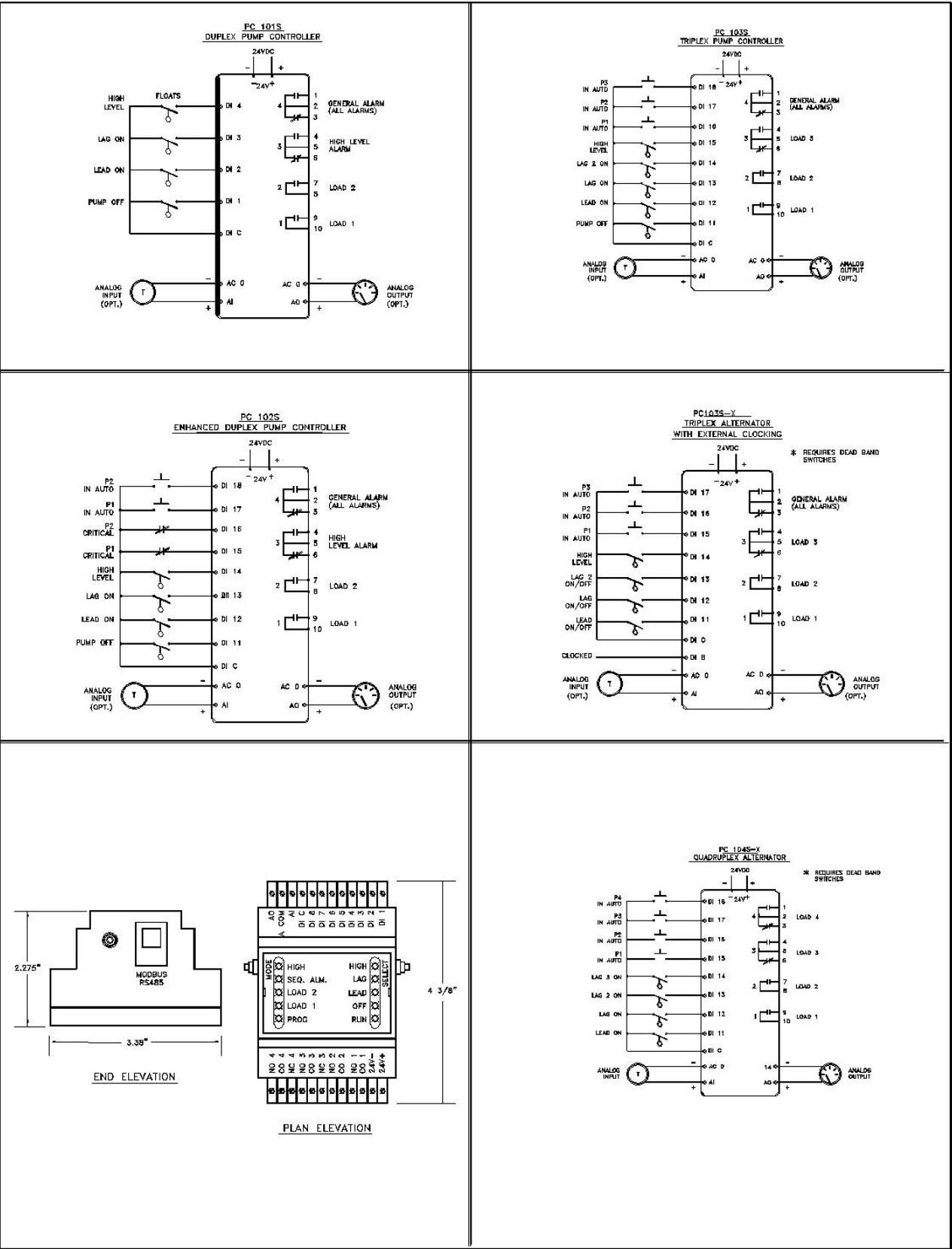
SPECIFICATIONS

- **Power Supply:** 24VDC \pm 20% @ 4VA
- **Relay Output (4):** 10A @ 120VAC
8A @ 30VDC
- **Input Switch:** Open Circuit >5VDC
- **Temperature Operating:** -20°C to +60°C
Storage: -40°C to 85°C
- **Relay Life:** Electrical 100K Cycles
Mechanical 10,000K Cycles
- **Terminations:** Removable Screw Terminal
Barrier Strip
- **LED Indicators:**
Input:
Off Green
Lead Green
Lag Green
High Level Green
2nd Lag (Triplex Only) Green
Output:
Load 1 Red
Load 2 Red
Float Alarm Red
Pump Fault Alarm Red
Load 3 (Triplex Only) Red
High Level Alarm Red

FEATURES

- **Two, Three, or Four Pump Models**
Selectable alternation assures even run time by changing pump sequence at the end of a pumping cycle.
- **Programmable Functions**
Allows full alternation/sequencing fixed mode or pump out of service selection and LED test.
- **Fault Monitoring**
Short circuited or failed open control switches are monitored and removed from the operating sequence, indicated by LED.
- **Status Indicators**
LED indicators provide for each control switch, each load relay, and alarms.
- **Lag Pump Delay**
On power up, prevents simultaneous pump starts after a power failure.
- **Alarm Contact Output**
Duplex models provide a 5A relay output of switch failure, high level and general alarm. (All system alarms)
- **Din Rail Mounting**
and compression screw terminals.
- **RS485 MODBUS® Port**
with TX/RD LED indicators for SCADA applications

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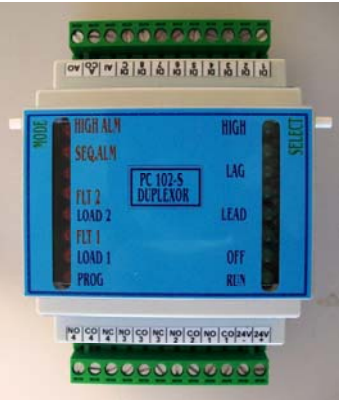


MODEL VARIATIONS

DUPLEX MODEL PC101-S

OPERATION

- Designed for operation of two loads requiring alternation to equalize wear, where floats or pressure switches are the primary sensors.
- The PC101-S accepts up to 4 switch inputs (pump off, lead on, lag on and high level) and provides continuous monitoring of the input devices. Should any input switch fail during an operational cycle, a sequence alarm LED is activated and the pump sequence is shifted to operate with the remaining switches.
- Fully programmable, the PC100-S allows user programming of alternation on or off and selection of fixed lead (pump 1 or pump 2) operation.
- LED indicators provide status of all inputs, output relays and CPU activity.
- RS485 MODBUS® dataport can be used for SCADA, telemetry or networking.
- 4 Form 'C' alarm outputs, for load 1, load 2, high level, and general alarm.



TRIPLEX MODEL PC103-S

OPERATION

- Designed for operating 3 loads requiring sequencing and alternation, with 'AUTO' selector switch monitoring.
- The PC103-S accepts 5 switch inputs (pump off, lead on, lag on, lag 2 on and high level alarm).
- All input switch and output relay status is indicated by clearly visible LED indicators.
- Additional inputs are provided for monitoring the 'AUTO' position of each pump. If any pump is deselected via its H-O-A, it will be removed from the operational sequence automatically.
- User programmable, alternation and fixed sequence.
- RS485 MODBUS® data port provides SCADA interface.
- 4/20ma input/output.



ENHANCED DUPLEX MODEL PC102-S

OPERATION

- The PC102-S is designed for the operation of two loads requiring alternation for the equalization of wear, where floats or pressure switches are the primary sensor.
- The PC102-S is similar to the PC101-S with additional monitoring functions for hand/off/auto selector position and critical alarm inputs such as pump overtemperature, VFD fault, etc.
- Operation differs from the PC101-S in that during a pump operation cycle, if a pump specific critical alarm occurs, then that pump is taken out of service. The non-operational pump started and a pump fault alarm is indicated.
- Inputs are provided to allow the controller to monitor each pump's H-O-A selector. Pumps will be called into the duty cycle only if their H-O-A is in the "auto" position.
- All other features are the same as the PC101-S.



SPECIALTY UNITS (Factory Order)

TRIPLEXER WITH EXTERNAL ALTERNATOR INPUT

- Triplexer with external clocked alternation option.
- Allows for user alternation of loads based on external clocking device such as a repeat cycle timer to allow alternation based on time rather than pump cycle.
- Each lead input stops/starts a load in an alternating sequence. The clocked input will alternate running loads when activated.
- Inputs provided for 'AUTO' selection.
- All other features similar to PC103-S.

QUADRAPLEX ALTERNATOR

- Designed to operate 4 pumps with alternation and sequencing.
- Inputs must be differential dead band devices where off and on action is provided by a single device (float switch, pressure switch, etc.)
- No external clocking is provided.
- All other features similar to PC103-S.