



120S SERIES DUAL PUMP SEAL AND TEMPERATURE MONITOR

FEATURES



- Σ Microprocessor Based
- Σ Dual Channel Capability (2 Motors)
- Σ Seal Fail Monitoring
- Σ 8 Status Indicating LED's
- Σ Dual Temperature Switch Inputs (N/C)
- Σ Dual Seal Sensor Inputs Conductance or Float input (N/O)
- Σ 4 10A Relay Outputs
- Σ Removable Barrier Terminals
- Σ RS 485 MODBUS® Port (Networkable)
- Σ User Programmable or Factory Configured
- Σ Din Rail Mount
- Σ 110VAC/220VAC or 24VDC Power (OPT)

The Sigma Controls 120S series SL/OT is a two pump monitor/controller for monitoring the internal temperature, bearing temperature and shaft seal of two submersible pumps.

- ◆ Moisture ingress detected by an internal NO float switch or embedded conductance probes. Adjustable sensitivity is provided.
- ◆ Motor or Bearing Temperature Detected by an internal temperature switch. NC
- ◆ In the event of a power loss while alarms are active, any alarm that was active will return to the active state upon restoration of power.

SPECIFICATIONS

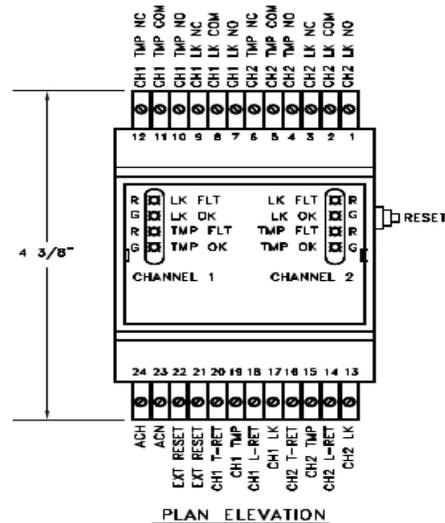
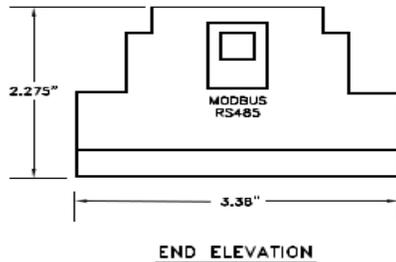
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|-----------------------|---|-------|
| Power Supply | 24VDC or 110VAC (optional) | |
| Relay Output (4) | @120VAC @30VDC | |
| Reset Switch | Open circuit | |
| Temperature Operating | -20°C to +60°C | |
| Temperature Storage | -40°C to 85°C | |
| Relay Life | Electrical 100K cycles Mechanical 10,000K cycles | |
| Termination | Removable screw terminal barrier strip | |
| LED Indicators | LED Indicators | |
| <u>Pump 1</u> | <u>Pump 2</u> | |
| Leak Fault | Leak Fault | Red |
| Leak OK | Leak OK | Green |
| Temp. Fault | Temp Fault | Red |
| Temp OK | Temp OK | Green |

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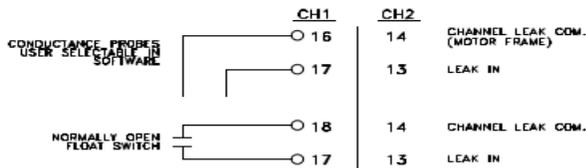
FEATURES

| | |
|-----------------------------------|--|
| Adjustable Sensitivity for Probes | Utilizes float switch NO or conductance probes for moisture sensing. |
| Resettable | Local and remote alarm reset. |
| Fault Monitoring | Intermittent loss of signal causes alarm indicators to flash between 'FAULT' and 'OK'. |
| Status Indicators | LED indicators provide for each control switch each load relay, and alarms. |
| Retentive Memory | Any alarm active during a power loss will reactivate upon power restoration. |
| Alarm Contact Output | 10A @ 250VAC, 10A @ 28VDC |
| Temperature Sensors | Bimetallic switch NC |
| Din Rail Mounting | Compression screw terminals |
| RS485 MODBUS® Port | For SCADA connectivity and programming |

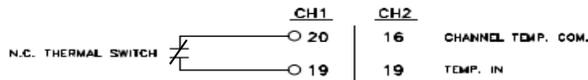
SIGMA CONTROLS MODEL 120S DUAL CHANNEL SEAL/OVERTEMP. RELAY



LEAK SENSOR INPUT OPTIONS



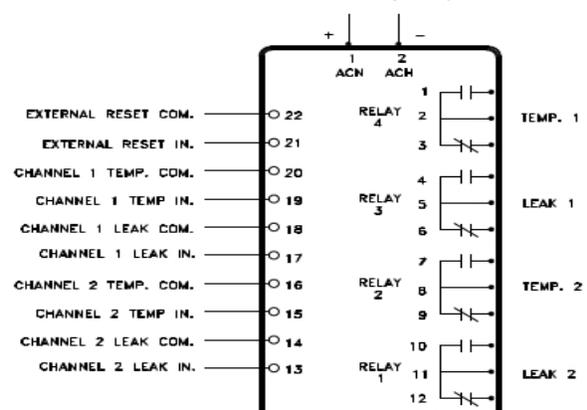
MOTOR OVERTEMP INPUT OPTIONS



EXTERNAL RESET



110VAC
OR 24VDC (OPTION)



SIGMA

Controls, Inc.

Dwg. No. 15-44
Date : 2-20-15
Scale : N.T.S.
Revision: 'B' 7/27/2018

MODEL 120S
DUAL PUMP MONITOR

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