



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 110 - 120VAC

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

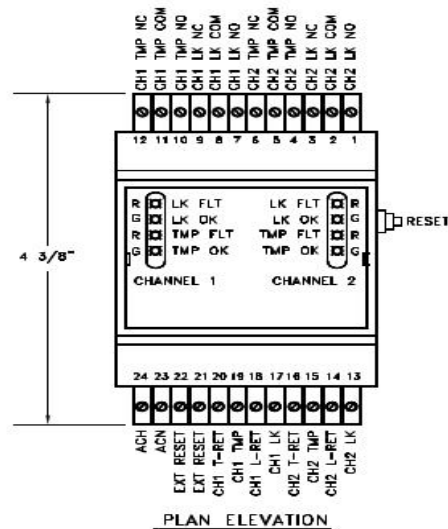
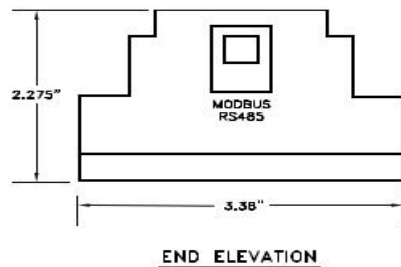
Power Supply	110 - 120VAC	
Relay Output (4)	@120VAC @30VDC	
Reset Switch	Open circuit	
Temperature Operating	-20°C to +60°C	
Temperature Storage	-40°C to 85°C	
Relay Life	Electrical 100K cycles Mechanical 10,000K cycles	
Termination	Removable screw terminal barrier strip	
LED Indicators	LED Indicators	
<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

VISIT OUR WEBSITE AT SIGMACONTROLS.COM

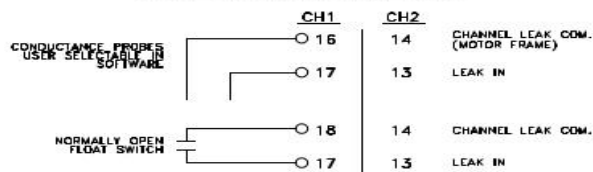
FEATURES

Adjustable Sensitivity for Probes	Utilizes float switch 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.
Alarm Contact Output	10A @ 250VAC, 10A @ 28VDC
Din Rail Mounting	Compression screw terminals
RS485 MODBUS® Port	SCADA or networked applications

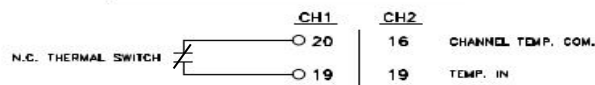
SIGMA CONTROLS MODEL 120S DUAL CHANNEL SEAL/OVERTEMP. RELAY



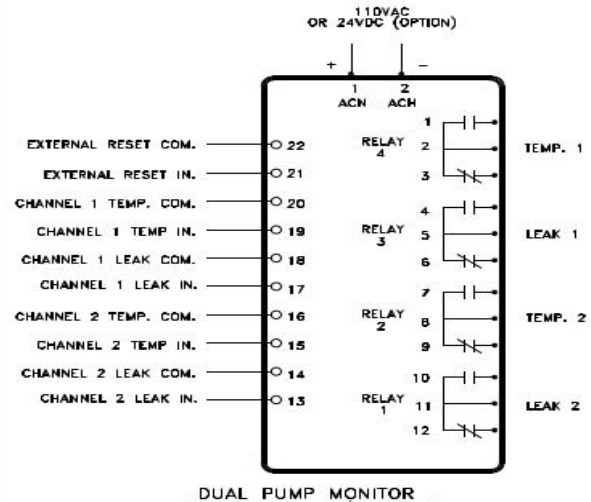
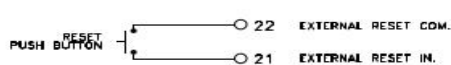
LEAK SENSOR INPUT OPTIONS



MOTOR OVERTEMP INPUT OPTIONS



EXTERNAL RESET



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

217 South 5th Street, Perkasie, Pa. 18944 — (215) 257-3412