Sigma Controls, Inc.
PROCESS CONTROLS AND INSTRUMENTATION

MADE IN AMERICA

100S SERIES DUAL PUMP SEAL AND TEMPERATURE MONITOR

FEATURES

- Σ **Microprocessor Based**
- Σ **Dual Channel (2 Motors)**
- Σ **Seal Fail Monitoring**
- Σ **8 Status Indicating LED's**
- Σ **Dual Temperature Switch Inputs**
- Σ **Dual 100 OHM RTD Inputs**
- Σ **Dual Seal Sensor Inputs Conductance or Float input**
- Σ **4 10A Relay Outputs**
- Σ **Removable Barrier Terminals**
- Σ **RS 485 MODBUS® Port (Networkable)**
- Σ **User Programmable**
- Σ **Din Rail Mount**
- Σ **110VAC or 24VDC Power**

The Sigma Controls 100S series SL/OT is a two pump monitor/controller for monitoring the internal temperature and shaft seal of two submersible pumps.

♦ Moisture ingression detected by an internal NO/NC float switch or embedded conductance probes. Adjustable sensitivity is provided.

♦ Overtemperature Detected by an internal temperature switch. NO or NC or by a 100 OHM RTD probe. Adjustable set point is provided.

♦ In the event of a power loss while alarms are active, any alarm that was active will return to their active state upon restoration of power.

SPECIFICATIONS	
Power Supply	24VDC or 110VAC (optional)
Relay Output (4)	@120VAC @30VDC
Input Switch	Open circuit : 5VDC
emperature Operating Storage	-20°C to +60°C -40°C to 85°C
Relay Life	Electrical 100K cycles Mechanical 10,000K cycles
Termination	Removable screw terminal barrier strip
LED Indicators Pump 1 Pump 2 Leak Fault Leak Fault Leak OK Leak OK Temp. Fault Temp Fault Temp OK Temp OK	LED Indicators Red Green Red Green

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.
Lag Pump Delay	On power up, prevents simultaneous pump starts after a power failure.
Alarm Contact Output	10A @ 250VAC 10A @ 28VDC
Din Rail Mounting	And compression screw terminals
RS485 MODBUS® Port	With TX/RD LED indicators for SCADA applications.

END ELEVATION

PLAN ELEVATION

LEAK SENSOR INPUT OPTIONS

MOTOR OVERTEMP INPUT OPTIONS

DUAL PUMP MONITOR

Sigma Controls, Inc.
PROCESS CONTROLS AND INSTRUMENTATION

PH: 215-257-3412
FAX: 215-257-3416
EMAIL: les@sigmacontrols.com

SERIES100SDUALSEAL&TEMPMONITOR081015