Sigma Controls, Inc.
PROCESS CONTROLS AND INSTRUMENTATION
217 S. Fifth Street, Perkasie, PA 18944
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MADE IN AMERICA

SERIES 1000
CONDUCTANCE LEVEL CONTROL SYSTEM

FEATURES

- **Compact 8-pin/11-Pin Octal Case**
- **Modular 'Plug-in' Design**
- **Integral LED Indicating Light**
- **Solid State Design, Low Voltage Output**
- **Single or Differential Control**
- **Optional Time Delay Available**
- **Wide Sensitivity Range**
- **SPDT or DPDT 10 AMP Contacts**
- **Wide Range of Available Probe Designs**

APPLICATIONS

- POINT LEVEL CONTROL
- ON/OFF PUMP CONTROL
- LEVEL ALARMS
- DIRECT OR INVERSE OPERATION
- MAKE-UP VALUE CONTROL
- SEAL LEAK MONITORING IN PUMPS
- WELL LEVEL CONTROL WITH SUBMERSIBLE PROBES

The Sigma 1000 series solid state conductance level relay utilizes the ability of a conductive fluid to conduct a small current between metallic electrodes submersed in the fluid.

Key element of the conductance level control system for liquids is the relay that is activated when the liquid level reaches or falls below the tips of the electrodes. An integral LED indicator indicates the relay status.

The relay accepts up to three electrodes for insulated or non-metallic vessels. Only two electrodes are required where the vessel wall is in electrical contact with the fluid being measured.

Various sensitivities are available for a range of liquids from low to high specific resistance.

The standard relay can be used for either differential or single-level control. The unit uses a standard 8 or 11 pin socket, which can be purchased as an option. Sensitivity for the standard model is up to 50K OHMS.

SPECIFICATIONS

SUPPLY VOLTAGE:
Standard: 120 VAC, 50/60 HZ
Optional: 240 VAC or 24 VA

CONTACT RATINGS:
Standard: Single pole, single throw
10 AMP Resistive 1/3 HP
Optional: Double pole, double throw
10 AMP Resistive 1/3 HP

CONTACT INDICATOR:
LED, Open or Closed

MODE OF OPERATION:
Factory set for direct or
Inverse operation

SENSITIVITY:
Standard: 0-50 K
Optional: 50 K – 1M

TIME DELAY:
Factory set at 0-.5 Seconds
Optional Times Available

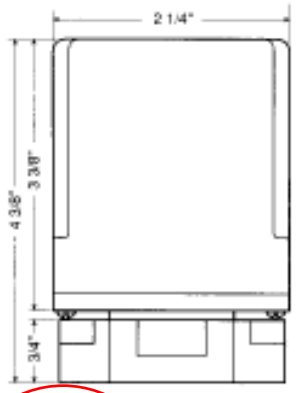
SERIES 1000 CONDUCTANCE LEVEL CONTROL SYSTEM

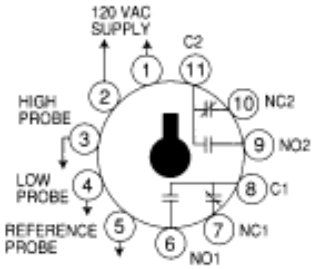
ORDERING INFORMATION

MODEL #	OPERATING VOLTAGE	SENSITIVITY	TIME DELAY	SOCKET
100 SPDT	**120 VAC**	**A = 0-15K OHMS**	**1 = NONE**	**8 = 8-PIN**
200 DPDT	**240 VAC**	**B = 0-50 K OHMS**	**2 = ON MAKE**	**11 – 11-PIN**
	24 VAC	**C = 50 K MEG OHMS**	**3 = ON BREAK**	

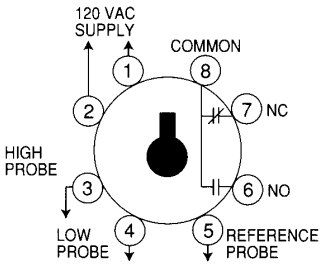
COMPLETE MODEL #: 100-120-A-1-8

DIMENSIONAL DIAGRAMS





11-PIN SOCKET



8-PIN SOCKET

*NOTE: For single point alarm service jumper pins 3 & 4 together.

MODEL 200

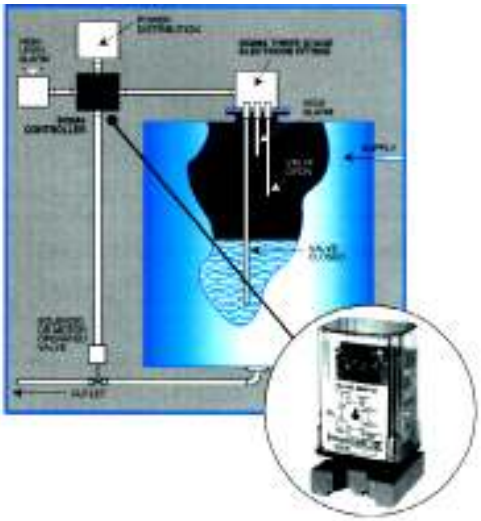
Suspension style level probe, 316SS probe in a protective PVC shield. Designed for submersible applications in water, wells, tanks, etc…

MODEL 200-SW

PVC suspension wire for 200 Series suspended electrodes.

MODEL 202

Single or multipoint rod holder with up to 4 brass or S.S. rod holders in a 2" NPT threaded PVC holder. Nema 4 weatherproof junction/termination enclosure.



MODEL 201

Single point, pressure tight probe 1/4" NPT, Brass or Stainless Steel with Stainless Steel Rod.

MODEL 203

Flanged 3" X 150" PVC holder capable of accepting up to 6 brass or S.S. rod holders. Nema 4 weatherproof junction/termination enclosure.

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