

SINGLE PROBE | PUMP UP & PUMP DOWN

LCP SERIES



- ◆ Controls Level of Conductive Liquids in Pump Up (Fill) or Pump Down (Drain) Applications
- ◆ Single Probe
- ◆ Probe is Pulsed with a DC Voltage to Prevent Electroplating
- ◆ Factory-Fixed Time Delay of 1-60 Seconds Prevents Rapid Cycling
- ◆ Two Adjustable Sensitivity Ranges
- ◆ LED Status Indication
- ◆ Uses industry-standard 8 pin octal socket



LCP Series Liquid Level Control Relays detect and control levels of conductive liquids (tap water, seawater, sewage, chemical solutions, coffee, ice cream, etc.) in single probe pump up or pump down applications. The conductive properties of the liquid complete a circuit between a probe and common when the liquid comes in contact with both. These relays compare the value of the measured resistance between probes with the setpoint of the adjustable potentiometer provided on the product. The output of the relay is used to control pumps, solenoids or valves to lower, raise or maintain the level of the liquid in the tank. Probes are pulsed with a DC voltage to prevent potential electroplating issues. A built-in time delay prevents rapid cycling.

Two versions of Single Probe products are available:

- **Pump Up (Fill):** The relay is OFF as long as the liquid is in contact with the probe. The relay energizes after a fixed time delay when the liquid level drops below the probe. The relay de-energizes when the liquid level touches the probe.
- **Pump Down (Drain):** The relay is OFF as long as no liquid is in contact with the probe. The relay energizes after a fixed time delay when the liquid level touches the probe. The relay de-energizes when the liquid level falls below the probe.

Single Probe

FUNCTION	INPUT VOLTAGE	SENSITIVITY RANGE	PRODUCT NUMBER ◆	WIRING/ SOCKET
PUMP UP (FILL)	24V AC	4.7K to 100K Ω 1K to 250K Ω	LCP8A100F◆ LCP8A250F◆	<p>DIAGRAM 203</p>
	120V AC	4.7K to 100K Ω 1K to 250K Ω	LCP2A100F◆ LCP2A250F◆	
	240V AC	4.7K to 100K Ω 1K to 250K Ω	LCP1A100F◆ LCP1A250F◆	
PUMP DOWN (DRAIN)	24V AC	4.7K to 100K Ω 1K to 250K Ω	LCP8B100F◆ LCP8B250F◆	
	120V AC	4.7K to 100K Ω 1K to 250K Ω	LCP2B100F◆ LCP2B250F◆	
	240V AC	4.7K to 100K Ω 1K to 250K Ω	LCP1B100F◆ LCP1B250F◆	

- ◆ Complete Product Number by adding time delay in one second increments between 1 & 60, i.e., LCP2A100F2 is a Single Probe Pump Up Relay, 120V Input Voltage, 4.7K-100K Ω Sensitivity with a Fixed 2 Second Delay

Sockets & Accessories available



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DUAL PROBE | PUMP UP & PUMP DOWN

LCP SERIES



- ◆ Controls Level of Conductive Liquids in Pump Up (Fill) or Pump Down (Drain) Applications
- ◆ Dual Probe
- ◆ Probe is Pulsed with a DC Voltage to Prevent Electroplating
- ◆ Two Adjustable Sensitivity Ranges
- ◆ LED Status Indication
- ◆ Uses industry-standard 8 pin octal socket



with appropriate socket



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LCP Series Liquid Level Control Relays detect and control levels of conductive liquids (tap water, seawater, sewage, chemical solutions, coffee, ice cream, etc.) in dual probe pump up or pump down applications. The conductive properties of the liquid complete a circuit between a probe and common when the liquid comes in contact with both. These relays compare the value of the measured resistance between probes with the setpoint of the adjustable potentiometer provided on the product. The output of the relay is used to control pumps, solenoids or valves to lower, raise or maintain the level of the liquid in the tank. Probes are pulsed with a DC voltage to prevent potential electroplating issues.

Two versions of Dual Probe products are available:

- **Pump Up (Fill):** The relay energizes when the liquid level falls below the low probe and remains energized until the liquid level comes in contact with the high probe.
- **Pump Down (Drain):** The relay energizes when the liquid level comes in contact with the high probe and remains energized until the liquid level falls below the lower probe.

Dual Probe

FUNCTION	INPUT VOLTAGE	SENSITIVITY RANGE	PRODUCT NUMBER	WIRING/ SOCKET
PUMP UP (FILL)	24V AC	4.7K to 100K Ω 1K to 250K Ω	LCP8C100 LCP8C250	<p>DIAGRAM 197 Cross to Products from SSAC & NCC</p>
	120V AC	4.7K to 100K Ω 1K to 250K Ω	LCP2C100 LCP2C250	
	240V AC	4.7K to 100K Ω 1K to 250K Ω	LCP1C100 LCP1C250	
PUMP DOWN (DRAIN)	24V AC	4.7K to 100K Ω 1K to 250K Ω	LCP8D100 LCP8D250	<p>DIAGRAM 206 Cross to Products from Symcom & Crouzet</p>
	120V AC	4.7K to 100K Ω 1K to 250K Ω	LCP2D100 LCP2D250	
	240V AC	4.7K to 100K Ω 1K to 250K Ω	LCP1D100 LCP1D250	
PUMP UP (FILL)	24V AC	4.7K to 100K Ω 1K to 250K Ω	LCP8E100 LCP8E250	<p>DIAGRAM 199 Cross to Products from GEMS (Warrick)</p>
	120V AC	4.7K to 100K Ω 1K to 250K Ω	LCP2E100 LCP2E250	
	240V AC	4.7K to 100K Ω 1K to 250K Ω	LCP1E100 LCP1E250	
PUMP DOWN (DRAIN)	24V AC	4.7K to 100K Ω 1K to 250K Ω	LCP8G100 LCP8G250	<p>DIAGRAM 206 Cross to Products from Symcom & Crouzet</p>
	120V AC	4.7K to 100K Ω 1K to 250K Ω	LCP2G100 LCP2G250	
	240V AC	4.7K to 100K Ω 1K to 250K Ω	LCP1G100 LCP1G250	
PUMP UP (FILL)	24V AC	4.7K to 100K Ω 1K to 250K Ω	LCP8H100 LCP8H250	<p>DIAGRAM 199 Cross to Products from GEMS (Warrick)</p>
	120V AC	4.7K to 100K Ω 1K to 250K Ω	LCP2H100 LCP2H250	
	240V AC	4.7K to 100K Ω 1K to 250K Ω	LCP1H100 LCP1H250	
PUMP DOWN (DRAIN)	24V AC	4.7K to 100K Ω 1K to 250K Ω	LCP8J100 LCP8J250	<p>DIAGRAM 206 Cross to Products from Symcom & Crouzet</p>
	120V AC	4.7K to 100K Ω 1K to 250K Ω	LCP2J100 LCP2J250	
	240V AC	4.7K to 100K Ω 1K to 250K Ω	LCP1J100 LCP1J250	

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