

# LCP-TP LEVEL CONTROL PANEL

## Quick Configuration For Level Process Application

- Compatibility with remote SCADA Modbus, Hardwired 4 to 20 mA or local set-point adjustment
- Simplified ON/OFF level controller for 4-20mA sensor or high/low level switch implementation
- Selectable input controls and output alarms
- IP 66, 67 NEMA 4X rated panel
- Black and white interactive button display screen
- Equipped with data logging features

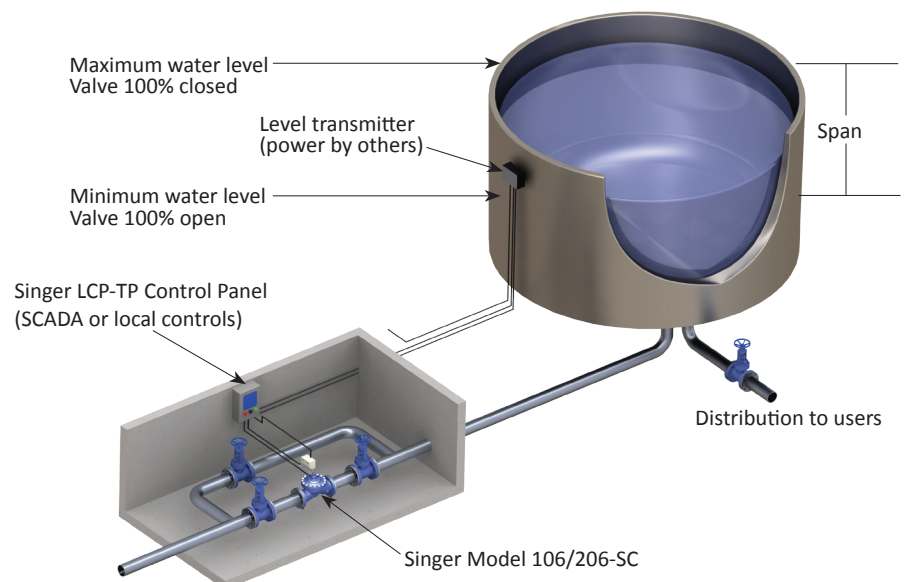


## Product Overview

The LCP-TP Level Controller is a single process level controller designed to complement Singer's Single Solenoid Operated/Override Control Valves and 4-20mA level sensor or High/Low Level Switches. This combination package is ideal for filling any kind of tank with water that requires filling to a level setpoint and then drawing down the level of the tank to a secondary setpoint before activating the fill cycle again thus ensuring tank turnover. The LCP-TP offers quick and easy configuration that allows the LCP-TP Controller to read and compare the level 4 to 20 mA signal to the desired setpoint. The LCP-TP then opens or closes the Singer control valve to achieve the desired level setpoint. If a High/Low level switch system is preferred the LCP-TP can easily switch configuration to allow for level switch inputs and control the Singer Valve accordingly. Additionally the LCP-TP is also equipped with data logging features than when enabled can log all sensor feedback and setpoint data with a time stamp allowing for system analysis.

### Ideal for:

- Level control
- Data logging



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## Technical Specifications

Display:	Black & White interactive display (standard) 3.5" 20-key keypad and numeric entry capability (128x64)
Input Power Supply:	120VAC, 60 Hz, Typical Load: 0.5A, Full Load: 5A Max 240VAC, 50 Hz, Typical Load: 0.3A, Full Load: 5A Max 24VDC, Typical Load: 1A, Full Load: 5A Max
Sensor DC Supply:	AC Model: 24VDC, 2.5A Max DC Model: Isolated 24VDC, 1A Max
Operating Ambient:	0 to +50°C (32 to 122 °F)
Storage Temperature:	-10 to +60°C (14 to 140 °F)
Relative Humidity:	5 to 90% RH non-condensing
Enclosure Material:	Polycarbonate (standard)
Enclosure Rating:	NEMA Type 4, 4X, 12, 13 IEC 60529, IP66, IP67
Safety Standard:	UL 508A Industrial Control Panel
Installation Location:	Not suitable for use in hazardous locations or for use with devices that are installed in hazardous locations
Atmospheres:	Not suitable for use above 2000m or in explosive or corrosive atmospheres. Electrically conductive pollution must be excluded from the cabinet in which this controller is mounted
Digital Input Rating:	24VDC, 2.4mA Max
Alarm Output Rating: (Dry Contacts)	min: 24VDC, 1.5A Max max: 250VAC, 1.5A Max
Solenoid Relay Output Rating: (Solid State Relays)	120VAC, 1A Max 240VAC, 1A Max 24VDC, 1.5A Max
Analog Inputs	
Process Variable:	4-20mA. All configurable between limits
Remote Setpoint:	4-20mA. All configurable between limits
Analog Output	
Process Variable Retransmission:	4-20mA. All configurable between limits
Resolution:	12 bits
Clock Accuracy:	+/- Seven Minutes/Month at 20°C
Datalogging:	Yes
Removable Media:	MicroSD card (not included)
Communication:	Modbus over Serial
Dimensions Enclosure:	11.34" (288mm) Length x 11.34" (288mm) Width x 6.81" (173mm) Height