

## Application



The general purpose level controller displays engineering units with four 4-20 mA continuous level sensor inputs and 6 programmable relays. Select from one of three run configurations:

- 1) Multi-tank with 4 level sensor inputs and 4 relays
- 2) Pump control with 1 level sensor input and 6 relays for lift stations in simplex (one pump) or duplex (two pumps) level control modes
- 3) Differential level with 2 level sensor inputs and 4 relays for municipal screen or rake control

Relays can be configured on a single set point (high level alarm or low level alarm) or latched on two set points for automatic fill or empty pump or valve control with selectable time delay. The graphic LCD display indicates span and relay status for each input channel. An optional MicroSD card enables data-logging storage and retrieval.



## Features

- Multi-tank controller with three run mode configurations
- Easy configuration via the push button display module
- Graphic LCD display indicates channel span and relay status
- DIN enclosure with NEMA 4X faceplate and shallow case
- Easy data logging and retrieval via optional MicroSD card
- Simulation mode for configuration testing and troubleshooting

## Key Benefits

- Get PLC performance in a simple to use controller
- Choose multi-tank, differential or pump controller modes of operation
- Simple HMI makes configuration quick and easy

## Compatible Products

**EchoSonic® II**  
Ultrasonic Level Transmitter



**EchoPod®**  
Ultrasonic Level Transmitter



**EchoSpan®**  
Ultrasonic Level Transmitter



**EchoTouch®**  
Ultrasonic Level Transmitter



**FloaTek™**  
Float Level Transmitter



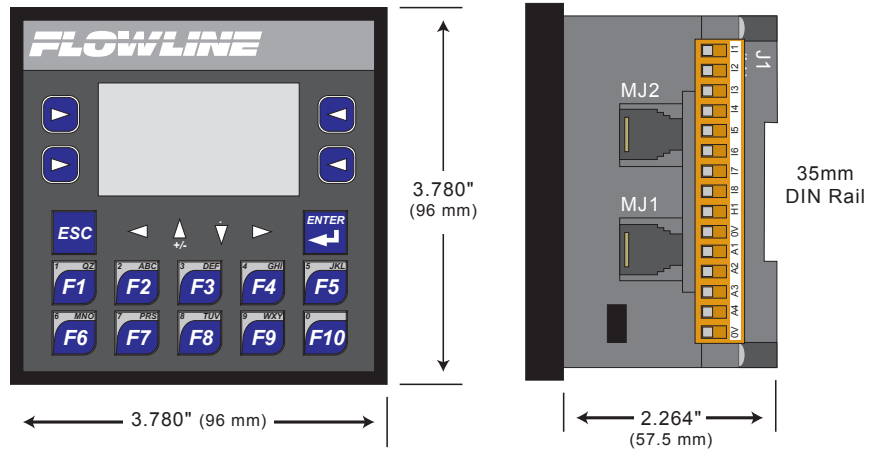
**DeltaSpan™**  
Pressure Level Transmitter



## Specifications

Display type:	LCD, graphic
Display pixels:	128 x 64
Display units:	Engineering
Display output:	0 to 999999
LCD indication:	Relay status
Configuration:	Push button
Backlight:	Yes
Memory:	Non-volatile
Opt. memory:	MicroSD card (up to 1 GB)
Linearization:	Tank shapes
Sensor inputs:	-1001: (4) 4-20 mA -2001: (2) 4-20 mA
Supply voltage:	10-30 VDC
Contact type:	-1001: 6 SPST relays -2001: No relays
Consumption:	130 @ 24 VDC
Contact rating:	3A @ 30 VDC or 250 VAC resistance load (-1001 only)
Repeater output:	(2) 4-20 mA, 24 VDC (-2001 only)
Ambient temp.:	F: 32° to 122° C: 0° to 50°
Weight:	12.5 oz (0.354 kg)
Enclosure type:	1/4 DIN, panel mount with 35mm DIN rail
Enclosure rating:	NEMA 4X (IP65) faceplate
Enclosure mat.:	Polycarbonate
Classification:	General purpose
Compliance:	CE
Approvals:	cULus

## Dimensions



## Accessories

For enhanced flexibility and performance, use the below recommended accessories.



P/N	Description
<b>AC-DC Sensor &amp; Indicator Power Supply</b>	
LC95-1001	100-240 VAC, 24 VDC @ 0.6A, 35mm Rail



**Expansion Cards**  
Optional MicroSD cards are available from electronic retailers. Expandable up to 1 GB.

## Ordering

LI90-001

**Sensor inputs / outputs** (1) (2)

- 1 4 inputs / 6 relays
- 2 2 inputs / 2 repeaters

### Notes

- 1) Optional MicroSD cards are available from electronic retailers.
- 2) For external loop power, order the LC95-1001 (120-240 VAC) power supply (24 VDC @ 0.60A).