Thermo-Flo™ LC8X Remote Flow Controller

FLOWLINE®

Application

The general purpose flow controller is offered in two configurations for low-flow pump and process protection. The LC80 accepts one flow sensor input and provides one 10A relay for low flow control. The LC82 accepts two flow sensor inputs and provides two 10A relays for dual low flow control. Package this flow controller with our liquid or gas flow switch sensors. For field mount installation, add a single or dual controller NEMA box.

CE CSA NRTL/C

Features

☑ Fail-safe relay control of pumps or valves with 0-60 second delay

☑ Easy setup with LED indicators for sensor, power and relay status

☑ 35 mm DIN rail mount polypropylene enclosure with removable terminal strips

☑ Invert switch changes relay state from NO to NC without rewiring

Key Benefits

☑ Connects to all Flowline Flow switches (FT10/GT10)

☑ Mounts easily in control panel

☑ Switches loads up to 10 Amps including valves, horns, buzzers, etc.

Compatible Products

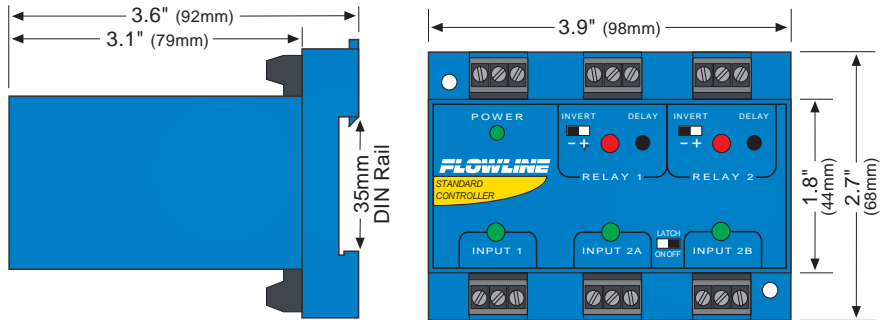### Thermo-Flo™ FT10/GT10 Liquid & Gas Flow Switch Sensors

Application

Offered in liquid and gas sensor types, the general purpose flow switch provides reliable low or no-flow detection of relatively clean, non-coating media with one 1A relay output. Liquid examples include water and acetic acid. Available in Polypropylene-Ryton® and PVDF, the short flow sensor is used in pipe or ducting from 1/2" to 1 1/2", and the long flow sensor is used in 2" and up. The flow switch set point may be adjusted from 0.04 to 3 fps in liquids, or 1 to 90 fps in gases as a low-flow alarm. The flow sensor is best applied in applications with relatively constant temperature.

Specifications

Supply voltage:	120 / 240 VAC @ 50-60 Hz
Consumption:	5 watts maximum
Sensor inputs:	LC80: (1) four-wire flow switch
	LC82: (2) four-wire flow switches
Sensor supply:	13.5 VDC @ 100 mA
LED indication:	Sensor, power & relay
Contact type:	LC80: (1) SPDT relay
	LC82: (2) SPDT relays
Contact rating:	250 VAC @ 10A
Contact output:	Selectable NO / NC
Contact latch:	LC80: N/A
	LC82: Selectable ON / OFF
Contact delay:	0-60 seconds
Ambient temp:	F: -40° to 158°
	C: -40° to 70°
Enclosure type:	35mm DIN rail
Enclosure mat.:	PP, UL94VO
Classification:	General purpose
Approvals:	CSA, LR 79326

Dimensions

Accessories

Protect your level controller from the elements by using the below recommended single or two indicator NEMA box.

P/N	Description
	Single & Two Controller NEMA Box
LM94-1001	Single Controller, Windowed, 35mm Rail, Polycarbonate
LM95-1001	Two Controller, Windowed, 35mm Rail, Polycarbonate

Ordering

$LC8\square\text{-}1001$

Contact(s) / input(s) (1) (2)
- **0** 1 Relay / 1 sensor
- **2** 2 Relays / 2 sensors

Notes
1) The flow controller is compatible with Thermo-Flo liquid and gas flow sensors.
2) To order a CE configuration, please indicate -CE at the end of the part number.
3) For field mount installation in a NEMA 4X polycarbonate enclosure, order the LM94-1001 (single controller box) or the LM95-1001 (two controller box) .