Thermo-Flo™ LC30 Compact Flow Controller

Application

The general purpose flow controller accepts one flow sensor input, and provides one 16A relay for low-flow pump or process protection. The optional flash alarm brings attention to low-flow alarm conditions. Package this flow controller with our liquid or gas flow switch sensors.

Features

- Fail-safe relay control of pumps or valves with 0-60 second delay
- Optional strobe brings immediate attention to flow alarm conditions
- Polypropylene enclosure rated NEMA 4X with swivel base for conduit alignment
- Easy setup with LED indicators for sensor, power and relay status
- Invert switch changes relay state from NO to NC without rewiring
- Compatible with Flowline liquid and gas flow switch sensors

Key Benefits

- Connects to all Flowline flow switches (FT10/GT10)
- Mounts directly onto flow switch
- Switches load up to 10 Amps including valves, horns, and buzzers
- Ideal for chemical injection lines
- Optional visual alarm

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 PP-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.

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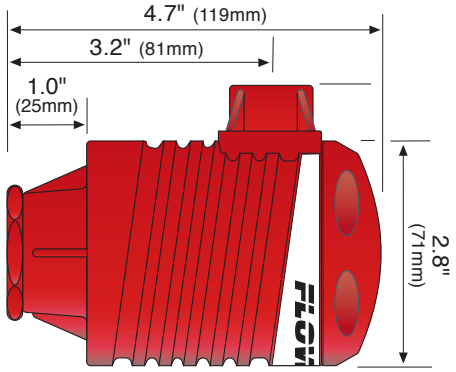
Thermo-Flo™ LC30 Compact Level Controller

Specifications

Supply voltage:	120 / 240 VAC, 50-60 Hz
Consumption:	0.25A maximum
Sensor input:	(1) four-wire flow switch
Sensor supply:	24 VDC @ 50 mA
LED indication:	Sensor, power & relay
Strobe type:	-10X1: N/A
	-10X2: Xenon tube
Strobe flash:	-10X1: N/A
	-10X2: (1) per second
Contact type:	(1) SPDT relay
Contact rating:	250 VAC @ 16A
Contact output:	Selectable NO / NC
Contact delay:	0-60 seconds
Ambient temp.:	F: -40° to 158°
	C: -40° to 70°
Enclosure rating:	NEMA 4X (IP65)
Enclosure mat.:	10X1: PP, UL94VO
	10X2: PP, UL94VO & PC
Conduit entrance:	1/2” NPT
Enclosure mount:	3/4” NPT (3/4” Rp)
Classification:	General purpose
Compliance:	CE
Approvals:	CSA, LR 79326

Dimensions



Accessories

Strobe Alert

The controller with Strobe Alert configuration flashes when the relay is energized during a high or low level alarm condition.

Ordering

LC30-10 ☐ ☐

Enclosure mount
- ***0*** *NPT (US)*
- ***5*** *Rp (Metric)*

Configuration (1)
- ***1*** *Controller only*
- ***2*** *Controller with Strobe Alert*

Notes

1) For a liquid tight cable connection, order the LM90-1001 connector.