

Audible Alarm Controls

LC 1000

The LC 1000 series alarm consoles are designed for use with any tank mounted sensing device that transmits an alarm condition by opening or closing switch contacts. While the controls are usable with a variety of field sensors, the LC's are optimized for level control. They assure complete safety and minimum installation cost by requiring only low current, intrinsically safe wiring between console and tank switch.

Housed in a water tight enclosure, the solid state circuitry provides from one (1) to four (4) alarm channels for monitoring up to four independent sensing points. Bright incandescent alarm lights and a loud sounding horn warn of alarm conditions. Dry contacts are provided for controlling your external devices such as pumps, valves, or remote alarm stations.

Features

- Consoles can monitor multiple tanks
- High and low level warning lights
- Audible alarm with reset button
- Multiple switches
- Push button test
- Intrinsically safe operation of tank mounted sensors

Operation

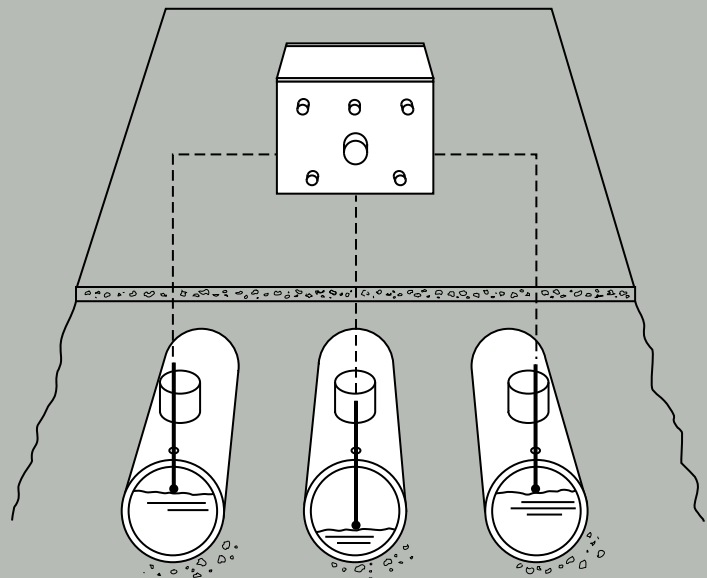
Each alarm channel transmits a 12 VDC signal to a tank mounted level switch. When the switch senses a level alarm condition, the switch transfers and the LC 1000 circuit energizes the audible horn and indicator light. The light will remain on after silencing the horn by pressing the *reset* button. At any time, an operator may test the alarm circuit by pressing the *test* button.



File No. 1Q3A4.AX



Meets Overfill Alarm Requirements



Typical Application

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Specifications

Power Input

120 VAC \pm 10%, 60 Hz
Fuse — .10 AMP, AG-SLO BLO

Power to Field Sensor

Low electrical energy; 12 VDC at 15mA provided by control unit to each sensor switch. Safe for Class I, Division 1, Groups A, B, C, D; Class II Division 1, Groups E, G.

Control Relay Output

Dry switch contact — SPDT per point, rated 3 AMPS at 120 VAC; selectable either normally open or normally closed.

Response Time

Typically 1/2 second. Automatic horn silence option, adjustable 30 seconds to 3 minutes.

Indicators/Controls

Red light indicates alarm condition
Horn signals audible alarm — 85dB min.
Reset button silences alarm
Test button tests alarm circuits

Temperature

-40 °F to 160 °F (-40 °C to 71 °C)

Enclosure

NEMA 4-weatherproof standard

Installation

Wall mount standard

Weight

6 lb (2.7 kg) approx. — small case
11 lb (5 kg) approx. — large case

Sensor Cable

Standard 2 conductor #18AWG
Up to 5000 feet (1524 m) (by customer)

Model	Description	Old Part Number
LC1001	Single Point	LC1SA
LC1002	Two Points	LC2SA
LC1003	Three Points	LC3SA
LC1004	Four Points	LC4SA

Specifications subject to change without notice.

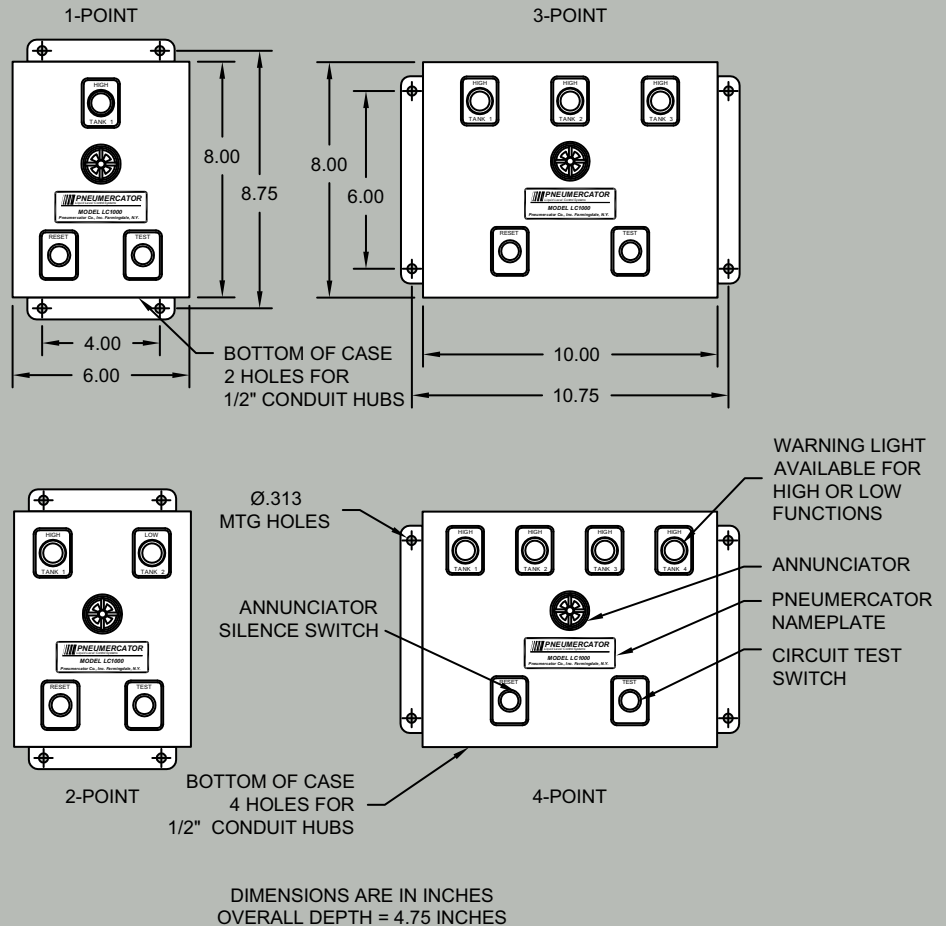


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Dimensions



Sample Specifications

Provide and install for each tank A _____ (high/low) level/overflow prevention alarm / control console. Console should display a visual indication of alarm condition and include an audible alarm horn with reset button. Visual indication should remain on until alarm condition is corrected. A test button on the alarm console should be provided to function test audible and visual alarm circuits. The console should provide a SPDT switch output, rated 3 AMPS at 120 VAC for controlling external devices. Electrical circuitry to tank mounted process sensors should be listed intrinsically safe for hazardous areas. The sensor wiring must be run in separate conduit containing no line voltage.

Alarm console should consist of solid state electronic circuitry operated from 120 VAC power, housed in a weatherproof enclosure, model _____ (see model number table) manufactured by the Pneumercator Co., Hauppauge, NY 11788.

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