1, 2, 3 or 4-Input Secondary Containment Leak/Point-Level Audible/Visual Alarm Console

Product Description

The LC1000-A series is a cost-effective solution for use as a secondary containment leak alarm console, single or multi-point level alarm or control, or simply as a remote audible/visual alarm indicator. The console is available in one, two, three or four sensor input configurations, with a corresponding number of super-bright visual LED indicators and Form C relay contact outputs. Front panel, industrial quality pushbuttons are provided to test system operation and acknowledge alarm conditions, and a front panel LED indicates input power status. The LC1000-A comes standard with a NEMA 4X(IP56) weatherproof and corrosionproof FRP enclosure, stainless steel or NEMA 7 explosionproof available as options. Please consult factory.

Console

- Dimensions (W x H x D): 1, 2-Input: 7.3” x 9.5” x 5.9” (186 mm x 242 mm x 149 mm)
  3, 4-Input: 11.4” x 9.3” x 6.4” (291 mm x 236 mm x 162 mm)
- Weight: 1, 2-Input: 4.7 lb (2.2 kg)
  3, 4-Input: 7.4 lb (3.4 kg)
- Operating Temperature: -40 ºF to 160 ºF (-40 ºC to 70 °C)
- Humidity: 95% Non-condensing
- Enclosure Rating: NEMA 4X (IP56)
- Power Requirements: Universal 95-250 VAC, 50-60 Hz, 10 W Max.
- Audible Alarm: 103 dB w/Louvered Volume Control
- Visual Alarm Indicators: Superbright Red LEDs, Wide Viewing Angle
- Power Indicator: Superbright Green LED
- Controls: TEST, RESET
- Relay Outputs: Form C, Rated: 10 A @120 VAC; 6A @240 VAC, One Relay Output per Sensor Input
- Sensor Capacities: 1, 2, 3 or 4 Normally Open or Normally Closed Sensors
- Standard Programming*: NORMALLY OPEN/CLOSED and HORN ENABLE/DISABLE per Sensor Input
  NORMAL or FAILSAFE Relay Mode and FRONT PANEL ACKNOWLEDGE per Relay Output
  Horn AUTO SILENCE OFF, 1-9 MINUTES
  *Consult factory for special applications and custom programming.

PNEUMERCATOR Liquid Level Control Systems

Pneumercator Company, Inc.
1785 Expressway Drive North
Hauppauge, New York 11788

Tel: 631-293-8450
Fax: 631-293-8533
http://www.pneumercator.com

Sensors

- LS600-LDBN — Float-Type Leak Sensor, Containment, Manway and Piping Sumps, Dispenser Pan
- LS600-LDSS — Float, Containment, Manway and Piping Sumps for Solvent and Chemical Applications
- LS600 — Standard Multi-Float, High / Low Level and Pump Control
- LS600F4 — Heavy Duty, Bulk Tank Multi-Float, High / Low Level
- LS600M — Sub-Base Generator Mini Series Multi-Float, High / Low Level
- LS600W — Oil/Water Separator Multi-Float, High / Low Level
- LS600X — Fully Submergible Multi-Float, High / Low Level and Pump Control
- RSU800/810 — Float, Tank Wet Annular / Reservoir
- RSU810 — Float, Collar Wet Annular / Reservoir
- LS610 — Float, Dry Annular

Certifications / Approvals

- FM/cFM Approved, File # FM16US0281X/FM16CA0143X
- Third-Party Approved, EPA-Compliant for Secondary Leak Detection

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4, 8, 12 or 16-Input Discriminating/Non-Discriminating Secondary Containment Leak/Point Level Alarm Console with Printer Option

Console

- Dimensions (W x H x D): 11.8” x 11.5” x 4.75” (300 mm x 292 mm x 121 mm)
- Weight: 14 lb (6.4 kg) (w/ Printer)
- Operating Temperature: -40 ºF to 160 ºF (-40 ºC to 70 °C) w/o Printer
  -5 ºF to 140 ºF (-20 ºC to 60 °C) w/ Printer
- Humidity: 95% Non-condensing
- Enclosure Rating: Locking NEMA 12 (IP52), NEMA 4 (IP56) or NEMA 4X (IP56) (304 S.S.)
- Power Requirements: 115/230 VAC ±15% (w/o Printer) Switchable, 50-60 Hz, 20 W Max.
  8-16 VDC or 16-60 VDC Optional
- Memory: Configuration / Setup Data – EEPROM, 50 year data retention, no batteries
  Log Reports and Real-Time Clock – Lithium Battery-Backed RAM, 5-10 year data retention
- Audible Alarm: 85 db
- Summary Visual Alarm: Optional White LED Strobe Summary Alarm Indicator, Visible from 300’ (91 m)
- Display: Ultra-High Intensity Normal (Green), Product (Red) and Water (Yellow) Alarm LEDs, Green Power LED, Visible from 75’ (23 m)
- Insert Labels: Pre-Printed or User-Printable/Writeable Polyester Pocket Insert Labels and Emergency Contact Label
- Communications: RS-232 Included Standard, RJ-13 Jack
  RS-485 Included Standard, Plug-In Terminal Block (For Pneumercator Peripherals)
  Internal, Secured Modem, Fax / Modem, Ethernet Network Interface or ModBus Optional
- Sensor Capacities: 4, 8, 12 or 16 Discriminating or Non-Discriminating Sensors, Supervised Wiring Ready
- I / O, Non-Haz.: Standard: 2 Relays, 1 Form C, Rated: 10 A @120 VAC; 6 A @240 VAC, w/ 2 Opto-Isolated Inputs
  Expansion Options: (1 slot available)
  4 Relays, 1 Form C, Rated: 10 A @120 VAC; 6A @240 VAC, w/ 4 Opto-Isolated Inputs
  8 Relays, 1 Form A, Rated: 5 A @120 VAC; 5A @240 VAC w/ 8 Opto-Isolated Inputs
  16 Relays, 1 Form A, Rated: 5 A @120 VAC; 5A @240 VAC

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Sensors

- ES825-200F — Electronic, Discriminating - Containment, Manway and Piping Sumps, Dispenser Pan, Dry Annular
- ES825-100F — Electronic, Non-Discriminating - Containment, Manway and Piping Sumps, Dispenser Pan, Dry Annular
- LS600LD — Float, Containment, Manway and Piping Sumps, Dispenser Pan
- LS600xx — Multi-Float, High / Low Level and Pump Control
- RSU800/810 — Float, Wet Annular / Reservoir
- LS610 — Float, Dry Annular
- HS100D — Polymer / Float – Wet Well, 10’ (3 m) to 25’ (7.6 m) depth
- HS100ND — Polymer – Dry Containment, 1’ (0.3 m) to 45’ (13.7 m) length

Most sensors are available with Fault-Detect Supervised sensor and wiring option. Add “F” Suffix to Model Number

Remote Audible/Visual Alarms

- RA400 — Addressable (up to 16), Multi-Drop, Programmable Remote Annunciator
- RA400W — Wireless Programmable Remote Annunciator (Requires MPX200)

Certifications / Approvals

- UL/cUL Approved, File #E139464
- FCC Part 15B, Part 68
- City agency approvals pending
- Third-Party Approved, EPA-Compliant for Secondary Leak Detection

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Fax: 631-293-8533
http://www.pneumercator.com

Low Cost, Two-Tank Gauging System w/ EPA-Compliant In-Tank and Secondary Containment Leak Detection

Console

- Dimensions (W x H x D): 11.8” x 11.5” x 4.75” (300 mm x 292 mm x 121 mm)
- Weight: 14 lb (6.4 kg) (w/ Printer)
- Operating Temperature: -40 ºF to +160 ºF (-40 ºC to +70 ºC) w/o Printer
  -5 ºF to +140 ºF (-20 ºC to +60 ºC) w/ Printer
- Humidity: 95% Non-condensing
- Enclosure Rating: Locking NEMA 12 (IP52), NEMA 4 (IP56) or NEMA 4X (IP56) (304 SS)
- Power Requirements: 115/230 VAC ±15% (w/o Printer) Switchable, 50-60 Hz, 20 W Max.
  8-16 VDC or 16-60 VDC Optional
- Memory: Configuration / Setup Data – EEPROM, 50 year data retention, no batteries
  Log Reports and Real-Time Clock – Lithium Battery-Backed RAM, 5-10 year data retention
- Audible Alarm: 85 db
- Display: 9-Character, Super Bright LED Data Display, Readable from 25’ (7.6 m)
  Ultra-High Intensity Alarm LEDS, Visible from 75’ (22.9 m)
- Communications: RS-232 Included Standard, RJ-13 Jack
  RS-485 Included Standard, RJ-13 Jack (For Pneumercator Peripherals)
  Internal, Secured Modem, Fax / Modem, Network Interface or ModBus Optional
- Probe / Sensor Capacities: 2 Magnetostrictive Probes
  8 Leak Sensors, Supervised Wiring Ready
- I/O, Non-Haz.: Standard: 2 Relays, 1 Form C, Rated 10A@120 VAC, 6A@240 VAC, w/ 2 Opto-Isolated Inputs
  Expansion Options: (1 slot available)
  4 Relays, 1 Form C, Rated 10A@120 VAC, 6A@240 VAC, w/ 4 Opto-Isolated Inputs
  8 Relays, 1 Form A, Rated 5A@120 VAC, 5A@240 VAC w/ 8 Opto-Isolated Inputs
  16 Relays, 1 Form A, Rated 5A@120 VAC, 5A@240 VAC
  6 or 12-Ch. Programmable Analog Outputs:
  0-1 mA, 0-20 mA, 0-24 mA, 4-20 mA, 0-5 VDC, 1-5 VDC

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Probe

- Technology: Magnetostrictive, Dual Float, w/ reflection resolution doubling
- Accuracy (Minimum):

MP45xS:		MP46x:	
Product Level:	0.0005” (0.013 mm)	Product Level:	0.01” (0.25 mm)
Water Level:	0.001” (0.025 mm)	Water Level:	0.01” (0.25 mm)
Temperature:	0.001 ºF (0.0006 ºC)	Temperature:	0.001 ºF (0.0006 ºC)

- Materials: Shaft: 316 SS or PVDF
  Floats: 316 SS, Buna-N, Urethane, or PVDF
- Mounting: In-Tank Leak Testing: 4” (102 mm) diameter riser
  Inventory Only: 2” (51 mm) minimum riser or direct bushing / flange mount
- Temperature Sensing: 5 Thermistors in shaft, 1 in probe head
- Location Approval: UL Class I, Div 1, Groups C and D; cUL Class I, Zone 0, Group IIB
- Operating Temperature: -40 ºF to 175 ºF (-40 ºC to 80 ºC)
- Operating Pressure: 150 PSIG (1034 kPa) 316 SS, 50 PSIG (345 kPa) PVDF
- Field Wiring: 22AWG, 2-Conductor twisted pair w/ shield
  Belden 8441, Belden 8761, Alpha 1736C or equiv., maximum length 3000’ to 4600’ (914 m to 1402 m)
- Models: MP45xS Series rigid SS max. length 24’ (7.3 m), MP46x Series flex. PVDF max. length 70’ (21.3 m)

Sensors

- ES825-200F: Electronic, Discriminating - Containment, Manway and Piping Sumps, Dispenser Pan, Dry Annular
- ES825-100F: Electronic, Non-Discriminating - Containment, Manway and Piping Sumps, Dispenser Pan, Dry Annular
- LS600LD: Float, Containment, Manway and Piping Sumps, Dispenser Pan
- LS600xx: Multi-Float, High / Low Level and Pump Control
- RSU800: Float, Wet Annular / Reservoir
- LS610: Float, Dry Annular
- HS100D2: Polymer / Float – Wet Well, up to 45’ (up to 13.7 m) depth
- HS100ND: Polymer – Dry Containment, 1’ to 45’ (0.3 m to 13.7 m) length
- LLP203: 3 GPH Catastrophic Line Leak Detector

Most sensors are available with Fault-Detect Supervised sensor and wiring option. Add “F” Suffix to Model Number

Remote Displays

- ETD1000: Addressable (up to 16), Multi-Drop, Remote Electronic Tank Display Panel
- TD1000: Tandem Remote Display

Certifications / Approvals

- UL/cUL Approved, File #E139464
- FCC Part 15B, Part 68
- Third-Party Approved, EPA-Compliant for In-Tank Leak Testing:
  Up to 20,000 Gal. (75,708 Liter) tank capacity, minimum tank inventory for test 20%
  0.2 GPH (0.8 LPH) Leak Test: Pd = 99.9%, Pfa = 0.1%
  0.2 GPH (0.8 LPH) Quick Test: Pd = 95%, Pfa = 5%
  0.1 GPH (0.4 LPH) Precision Test: Pd = 95.3%, Pfa = 4.7%
  Up to 75,000 Gal. (283,906 Liter) tank capacity, minimum tank inventory for test 50%
  0.2 GPH (0.8 LPH) Leak Test: Pd = 97.3%, Pfa = 2.7%
- NYC, City of LA and various other state and local agencies

Note: Specifications subject to change without notice. 10-07-2022

PNEUMERCATOR Liquid Level Control Systems
Pneumercator Company, Inc.
1785 Expressway Drive North
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Tel: 631-293-8450
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http://www.pneumercator.com

Modular, Multi-Tank Gauging System w/ EPA-Compliant In-Tank and Secondary Containment Leak Detection

Console

- Dimensions (W x H x D): 11.8” x 11.5” x 7.7” (300mm x 292mm x 178mm)
- Weight: 19 lb (8.6 kg) (4-Tank w/ Printer), 21.5 lb (9.8 kg) (12-Tank w/ Printer)
- Operating Temperature: -40 ºF to 160 ºF (-40 ºC to 70 ºC) w/o Printer
  -5 ºF to 140 ºF (-20 ºC to 60 ºC) w/ Printer
- Humidity: 95% Non-condensing
- Enclosure Rating: Locking NEMA 12 (IP52), NEMA 4 (IP56) or NEMA 4X (IP56) (304 SS)
- Power Requirements: 115/230 VAC ±15% (w/o Printer) Switchable, 50-60 Hz, 20 W Max.
  8-16 VDC or 16-60 VDC Optional
- Memory: Configuration/Setup Data – EEPROM, 50 year data retention, no batteries
  Log Reports and Real-Time Clock – Lithium Battery-Backed RAM, 5-10 year data retention
- Audible Alarm: 85 db
- Display: 9-Character, Super-Bright Sunlight-Readable LED Data Display, Readable from 25’ (7.6 m)
  Ultra-High Intensity Alarm LEDS, Visible from 75’ (22.9 m)
- Communications: RS-232 Included Standard, RJ-13 Jack
  (Additional RS-232 port accessible when configured without printer or modem)
  RS-485 Included Standard, RJ-13 Jack (For Pneumercator Peripherals)
  Internal, Secured Modem, Fax / Modem, Network Interface or ModBus Optional
- Probe / Sensor Capacities: 4/40, 8/32 or 12/24 (Probes/Sensors)
  All Sensor Inputs Supervised-Wiring-Ready
- I/O, Non-Haz.: Expansion Options (2 slots available):
  4 Relays, 1 Form C, Rated 10 A@120, 6 A@240 VAC, w/ 4 Opto-Isolated Inputs
  8 Relays, 1 Form A, Rated 5 A@120, 5 A@240 VAC, w/ 8 Opto-Isolated Inputs
  16 Relays, 1 Form A, Rated 5 A@120, 5 A@240 VAC
  6 or 12-Ch. Programmable Analog Outputs:
  0-1 mA, 0-20 mA, 0-24 mA, 4-20 mA, 0-5 VDC, 1-5 VDC

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Probe

- Technology: Magnetostrictive, Dual Float, w/ reflection resolution doubling
- Accuracy (Minimum):

MP45xS:		MP46x:	
Product Level:	0.0005” (0.013 mm)	Product Level:	0.01” (0.25 mm)
Water Level:	0.001” (0.025 mm)	Water Level:	0.01” (0.25 mm)
Temperature:	0.001 ºF (0.0006 ºC)	Temperature:	0.001 ºF (0.0006 ºC)

- Materials: Shaft: 316 SS or PVDF
  Floats: 316 SS, Buna-N, Urethane, or PVDF
- Mounting: In-Tank Leak Testing: 4” (102mm) diameter riser
  Inventory Only: 2” (51 mm) minimum riser or direct bushing / flange mount
- Temperature Sensing: 5 Thermistors in shaft, 1 in probe head
- Location Approval: UL Class I, Div 1, Groups C and D; cUL Class I, Zone 0, Group IIB
- Operating Temperature: -40 ºF to 175 ºF (-40 ºC to 80 ºC)
- Operating Pressure: 150 PSIG (1034 kPa) 316 SS, 50 PSIG (345 kPa) PVDF
- Field Wiring: 22AWG, 2-Conductor twisted pair w/ shield
  Belden 8441, 8761, Alpha 1736C or equiv., max. length 3000’ to 4600’ (914 m to 1402 m)
- Models: MP45xS Series rigid SS max. length 24’ (7.3 m)
  MP46xS Series flex. PVDF max. length 70’ (21.3 m)

Sensors

- ES825-200F — Electronic, Discriminating - Containment, Manway and Piping Sumps, Dispenser Pan, Dry Annular, Includes Fault Detection Feature as Standard
- ES825-100F — Electronic, Non-Discriminating - Containment, Manway and Piping Sumps, Dispenser Pan, Dry Annular, Includes Fault Detection Feature as Standard
- LS600LD — Float, Containment, Manway and Piping Sumps, Dispenser Pan
- LS600xx — Multi-Float, High / Low Level and Pump Control
- RSU800 — Float, Wet Annular / Reservoir
- LS610 — Float, Dry Annular
- HS100D2 — Polymer / Float – Wet Well, up to 45’ (up to 13.7 m) depth
- HS100ND — Polymer – Dry Containment, 1’ to 45’ (0.3 m to 13.7 m) length
- LLP203 — 3 GPH Catastrophic Line Leak Detector

Most sensors are available with Fault-Detect Supervised sensor and wiring option. Add “F” Suffix to Model Number

Remote Displays

- ETD1000 — Addressable (up to 16), Multi-Drop, Remote Electronic Tank Display Panel
- TD1000 — Tandem Remote Display

Certifications / Approvals

- UL/cUL Approved, File #E139464
- FCC Part 15B, Part 68
- Third-Party Approved, EPA-Compliant:
  Up to 20,000 Gal. (75,708 liter) tank capacity, minimum tank inventory for test 20%
  0.2 GPH (0.8 LPH) Leak Test: Pd = 99.9%, Pfa = 0.1%
  0.2 GPH (0.8 LPH) Quick Test: Pd = 95%, Pfa = 5%
  0.1 GPH (0.4 LPH) Precision Test: Pd = 95.3%, Pfa = 4.7%
  Up to 75,000 Gal. (283,906 liter) tank capacity, minimum tank inventory for test 50%
  0.2 GPH (0.8 LPH) Leak Test: Pd = 97.3%, Pfa = 2.7%
- NYC, City of LA and various other state and local agencies

Note: Specifications subject to change without notice. 10-07-2022

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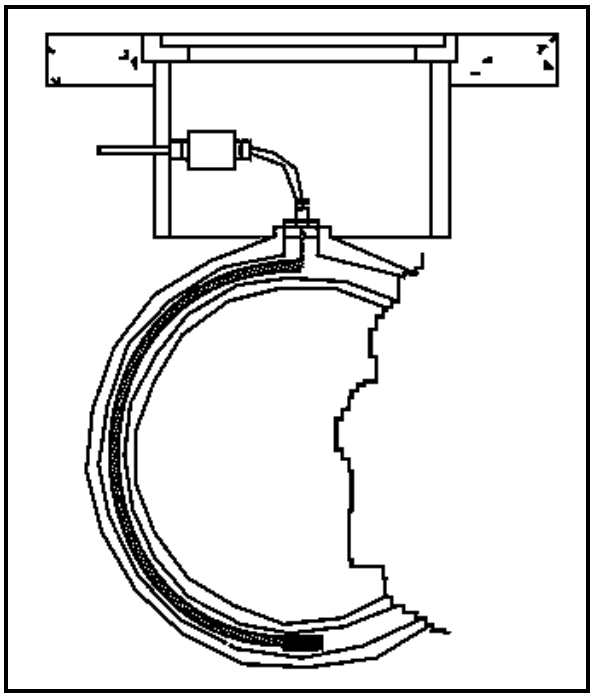
Float Switch Sensor LS 610

PNEUMERCATOR
Liquid Level Control Systems

120 Finn Court, Farmingdale, NY. 11735
(631)293-8450 Fax (631)293-8533 www.pneumercator.com

The LS 610 is a float switch sensor that is specifically designed to monitor for the presence of liquid within the "dry" annular space of a double-wall fiberglass tank. It consists of a single float switch that actuates in the presence of 1/8" of liquid. The sensor can not distinguish between water or hydrocarbon. It must be installed in a "Horizontal" position in the annular space.



SPECIFICATIONS:

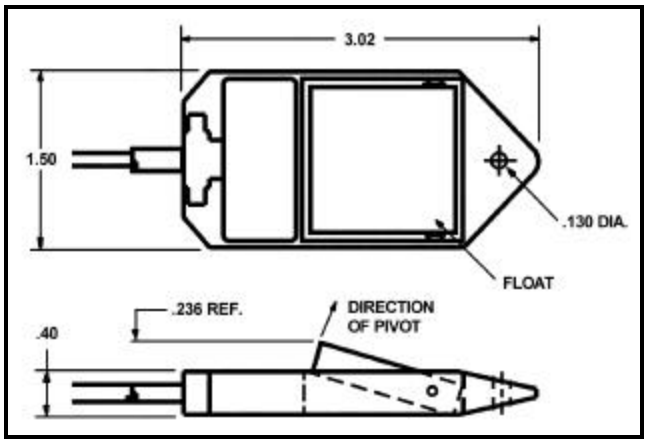
Float and Pivot Pin
Isoplastic Construction

Connector Cable
2 conductor, 18 AWG, 25' length, PVC coated

Installation Distance
5000' from Control Panel

Power Source
Provided by Alarm Panel

Switch Rating
10 Watts, .1 AMP



Sensor Housing
1.5" W x .4" H x 3.02" L
Isoplastic construction

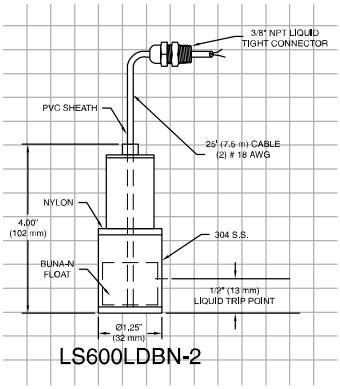
Sensor
Dry Reed Switch (normally closed)

Alarm Set Point
1/8" from base

Temperature Range
-40° to 150° F (-40° to 65.5° C)

Pressure
Full vacuum to 100 PSI

Narrow Body Secondary Containment Leak Sensor



Product Description

The LS600LDBN-2 float-actuated leak sensor provides secondary containment leak detection for above ground and underground storage tank applications where the LS600LDBN-1 cannot be used due to the smaller opening. The sensor assembly may be suspended at the desired point of actuation via the sensor cable and compression fitting, or allowed to rest at the bottom of the containment area being monitored. The compact size and favorable displacement properties of the LS600LDBN-2 make it ideal for monitoring shallow liquid levels. The LS600LDBN-2 optionally supports Pneumercator's FAULT-DETECT supervised wiring technology, which automatically detects field wiring faults when connected with a TMS series or LC2000 controller.

Applications

- Containment, Manway and Piping Sumps
- Dispenser Pan
- Turbine Enclosure
- Double-Wall Steel Tank
- Narrow Body Version For 1.25" NPT Opening

Specifications

- Technology: Magnetic Float, Hermetically Sealed Reed Switch
- Wetted Materials: Float: Buna-N
  Housing: 304SS and Nylon
  Stem: Brass
- Cable: 22AWG, 2-Conductor, 25' (7.5 m) Length, PVC-jacketed
- Operating Temperature: -20 ºF to 175 ºF (-30 ºC to 80 ºC)
- Pass-thru Opening Size: Minimum 1.25" NPT (38 mm)
- Location Approval*: UL Class I, Div 1, Groups C and D; cUL Class I, Zone 0, Group IIB

Installation

Sensor may be suspended by its cable or placed on the containment or sump floor.

Certifications/Approvals

- UL/cUL Approved*, File #E139464
- Third-Party EPA Listed*

Ordering

- LS600LDBN-2(-F,-FL) Buna-N Float, Brass Shaft, and PVC wiring

(-F) denotes Fault-Detect Option for LC2000/TMS2000/3000/4000
(-FL) denotes Fault Detect Option for TMS1000/2000W/4000W/WiDAM

*When used in conjunction with the LC2000/TMS series controllers or TMS2000W/4000W series WiDAM Wireless Data Acquisition Module

Note: Specifications subject to change without notice. 09-26-2016

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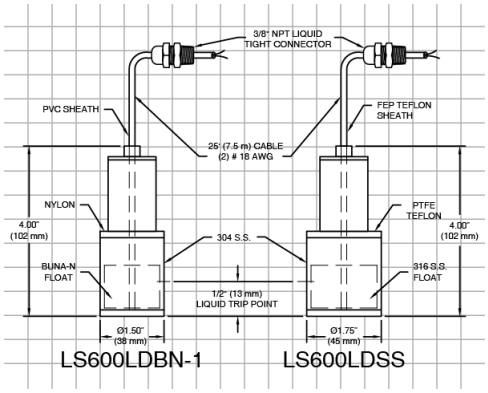
Secondary Containment Leak Sensor



Product Description

The LS600LD float-actuated leak sensor provides secondary containment leak detection for above ground and underground storage tank applications. The sensor assembly may be suspended at the desired point of actuation via the sensor cable and compression fitting, or allowed to rest at the bottom of the containment area being monitored. The compact size and favorable displacement properties of the LS600LD make it ideal for monitoring shallow liquid levels. The LS600LD Leak Switch is available with a Buna-N or stainless steel float for monitoring in most petrochemical and chemical storage tank applications. The LS600LD optionally supports Pneumercator's FAULT-DETECT supervised wiring technology, which automatically detects field wiring faults when connected with a TMS series controller.

Applications

- Containment, Manway and Piping Sumps
- Dispenser Pan
- Turbine Enclosure
- Double-Wall Steel Tank

Specifications

- Technology: Magnetic Float, Hermetically Sealed Reed Switch
- Wetted Materials: Float: Buna-N (BN, SN), 316SS (SS)
  Housing: 304SS and Nylon, (304SS and PTFE Teflon for SS)
  Stem: Brass, (316SS for SN, SS)
- Cable: 22AWG, 2-Conductor, 25' (7.5 m) Length, PVC-jacketed, (FEP Teflon-jacketed for SS)
- Operating Temperature: -20 ºF to 175 ºF (-30 ºC to 80 ºC), -40 ºF to 220 ºF (-40 ºC to 100 ºC) for SS
- Pass-thru Opening Size: Minimum 1-1/2" NPT (43 mm), (2" NPT (55 mm) for SS)
- Location Approval*: UL Class I, Div 1, Groups C and D; cUL Class I, Zone 0, Group IIB

Installation

Sensor may be suspended by its cable or placed on the containment or sump floor.

Certifications/Approvals

- UL/cUL Approved*, File #E139464
- Third-Party EPA Listed*

Ordering

- LS600LDBN-1(-F,-FL) Buna-N Float, Brass Shaft, and PVC wiring
- LS600LDSN-1(-F,-FL) Buna-N Float, 316 SS Shaft, and PVC wiring
- LS600LDSS(-F,-FL) 316 SS Float, 316 SS Shaft, and Teflon wiring

(-F) denotes Fault-Detect Option for LC2000/TMS2000/3000
(-FL) denotes Fault Detect Option for TMS1000/TMS2000W/WiDAM

*When used in conjunction with the LC2000/TMS series controllers or TMS2000W series WiDAM Wireless Data Acquisition Module

Note: Specifications subject to change without notice. 04-01-2013

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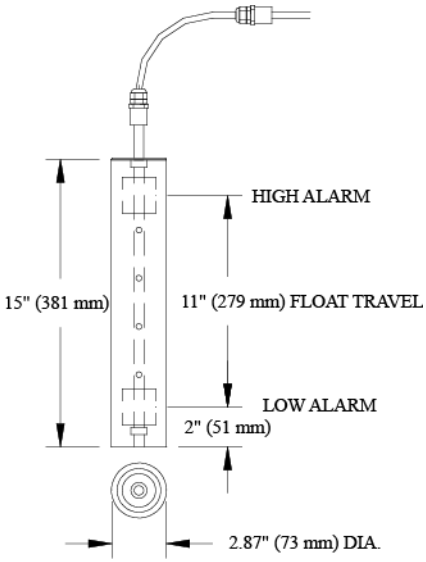
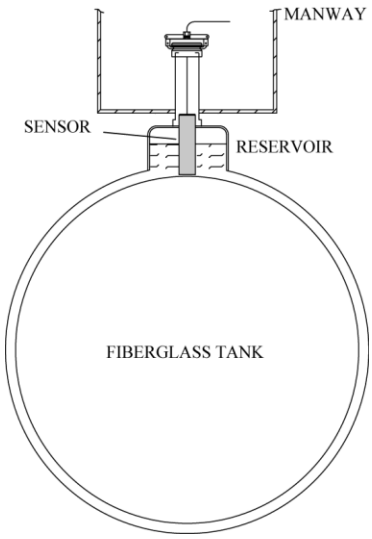
Dual Float Reservoir Sensor





Product Description

Model RSU800-2 is a dual float normally closed sensor that detects level changes within the reservoir. A breach of the inner tank wall will trigger a high alarm, and a breach of the outer wall will trigger a low alarm as the reservoir level changes. Fluctuations due to temperature and barometric pressure changes should not trigger an alarm. The sensor can be wired as non-discriminating (one alarm for high and low levels) requiring (1) N.C. input, or as discriminating (individual alarms for high and low levels) requiring (2) N.C. inputs.

Application

Brine or glycol filled fiberglass double wall tank reservoirs

Specifications

- Technology: Magnetic Floats, Hermetically Sealed Reed Switches
- Wetted Materials: PVC, Buna-N
- Operating Temperature: -40 ºF to 175 ºF (-40 ºC to 80 ºC)
- Cable: 22 AWG, 4-conductor, PVC Jacket, 16’ (4.9 m) Length
- Pass-thru Opening Size: 3” (76 mm) Riser, Schedule 40 PVC
- Location Approval: UL Class I, Div 1, Groups C and D; cUL Class I, Zone 0, Group IIB

Installation

Sensor is installed through a minimum 3” riser and rests on the reservoir floor. The reservoir fluid level is typically set at halfway up the sensor housing.

Certifications/Approvals

- UL/cUL Approved*, File #E139464
- NYC, LA City and various other City and State Approvals
- Third-Party EPA Listed

*When used in conjunction with the TMS/LC2000 series controllers or TMS2000W series WiDAM Wireless Data Acquisition Module

Note: Specifications subject to change w/o notice. 04-01-2013

PNEUMERCATOR Liquid Level Control Systems

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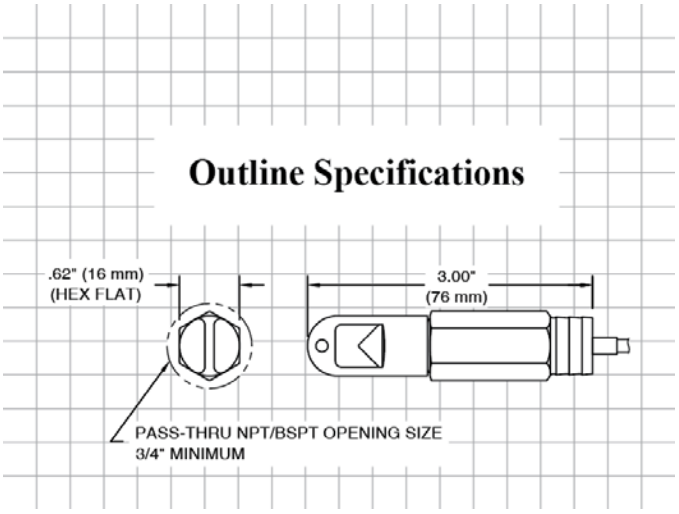
Solid-State, Electro-Optic Secondary Containment Leak Sensor for Chemical Applications with Fault Detection

Chemical Resistant



Product Description

The Model ES825-100CF is a solid-state, electronic leak sensor utilizing electro-optic technology to detect the presence of liquids in secondary containment applications. The "C" version includes all of the features of the standard ES825-100F, with the addition of a chemical-resistant sensor body and cable resistant to most acids, alkalines and solvents. The sensor contains no moving parts, is unaffected by vapors, and due to its compact size is ideal for interstitial spaces. When connected with a LC2000/TMS series controller, the ES825-100CF supports Pneumercator's FAULT-DETECT supervised wiring technology, which automatically detects sensor or field wiring faults.

Applications

- Dry Annular Space in Double-Wall Tanks
- Containment, Manway and Piping Sumps

Specifications

- Technology: Electro-optic, no moving parts
- Wetted Materials: PFA Teflon, FEP Teflon, Epoxy, and Polypropylene
- Operating Temperature: -40 ºF to 175 ºF (-40 ºC to 80 ºC)
- Cable: 22AWG, 3-Conductor, FEP Teflon Jacket, 20' Length
- Pass-thru NPT/BSPT Opening Size: Minimum ¾"
- Location Approval*: UL Class I, Div 1, Groups C and D; cUL Class I, Zone 0, Group IIB
- Compatible with: LC2000, TMS2000, TMS3000, and TMS4000

Installation

Sensor may be suspended by its cable, placed on the containment or sump floor, or thru-wall mounted via a ¼" FNPT opening. For dry annular applications, sensor may be pulled through using fish tape attached to sensor pull ring, or pushed through with a section of ½" ENT (not included) attached to the back end of the sensor.

Certifications/Approvals

- UL/cUL Approved, File #E139464
- Third-Party EPA Listed*

*When used in conjunction with the LC2000/TMS series controllers

Note: Specifications subject to change without notice. 04-29-2022

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