Level Swichgage[®] Instrument For Engine Liquids



L150/ EL150K1 Series

- Monitors Level of Coolant, Lube Oil, Diesel Fuel And Hydraulic Fluid.
- Indicating Gauge
- Low Limit Switch
- Float Operated
- Explosion-Proof Model Is Available.





** Products covered by this bulletin comply with EMC Council directive 89/336/EEC regarding electromagnetic compatibility except as noted.

EL150EX Models are CSA Listed for Class I, Division 1, Group C & D Hazardous Locations.

Description

The L150 Series Level Swichgage instrument is a combination liquid level gauge and low limit switch; each unit includes (1) a chamber with pivotal float, (2) an indicating dial with pointer, and (3) a low level contact. When properly installed and maintained, the float operates the pointer which, in turn, both indicates level during normal operation, and closes a switching circuit if the level falls to the low-limit set point.

Applications

The primary use of the L150/EL150K1 is for engine cooling systems, surge or expansion tanks, condenser radiator or vapor phase systems, pressurized or atmospheric systems. The Level Swichgage instrument can also be used to monitor lube oil, hydraulic fluid or diesel fuel reservoirs and activates alarms and/or shut-down at a predetermined minimum level.

These instruments are built for low pressure systems with a maximum of 25 psi (172 kPa) [1.72 bar].

L150 Specifications

Case: Die cast aluminum, poly-urethane coated; approximate dimensions; 4-1/2 x 4-3/4 x 2-3/4 in. (114 x 121 x 70 mm).

Mounting Holes: (2) 9/32 in. (7 mm) diameter at 4-1/2 in. (114 mm) on center.

Float: Brass. **Lens:** Polycarbonate.

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O-rings: Saturated Nitrile, are suitable for coolant or hydrocarbons. Maximum temperature 250°F (121°C).

Gasket: Nitrile.

Vent Tube: 1/4 x 5 in. (6 x 127 mm) copper cane with 1/4 NPT x 1/4 in. (6 mm) tube fitting.

Contact Rating: 2 A @ 30 VAC/DC.

Wire: (1) 16 AWG x 26 in. (1.5 mm² x 660 mm) with terminals.

Shipping Weight: 29 oz. (0.82 kg.). **Shipping Dimensions:** 5-1/4 x 5-1/4 x 5-1/2 in. (133 x 133 x 140 mm).

EL150K1 Specifications

Case: Die cast aluminum, poly-urethane coated; approximate dimensions; 5 x 4-3/4 x 2-3/4 in. (127 x 121 x 70 mm).

Mounting Holes: (2) 9/32 in. (7 mm) diameter at 4-1/2 in. (114 mm) on center.

Float: Brass.

Lens: Polycarbonate.

O-rings: Saturated Nitrile, are suitable for coolant or hydrocarbons. Maximum temperature 250°F (121°C).

Gasket: Nitrile.

Vent Tube: 1/4 x 5 in. (6 x 127 mm) copper cane with 1/4 NPT x 1/4 in. (6 mm) tube fitting. **Snap-Switch:** SPDT rated 10 A @ 125 VAC;

0.5 A @ 125 VDC; 10 A 30 VDC.

Wire: (3) 18 AWG x 14 in. (1 mm² x 356 mm).

Shipping Weight: 42 oz. (1.2 kg.). **Shipping Dimensions:** 5-1/4 x 5-1/4 x 5-1/2 in. (133 x 133 x 140 mm).

EL150EX Specifications

Case: Sand cast aluminum, painted; approximate dimensions; $6-1/2 \times 5-3/4 \times 5-1/4$ in. (165 x 146 x 133 mm).

Mounting Holes: (2) 5/16 in. (8 mm) diameter at 5-1/2 in. (140 mm) on center.

Float: 304 Stainless steel. **Lens:** Tempered glass.

O-rings: Saturated Nitrile, are suitable for coolant or hydrocarbons. Maximum temperature 250°F (121°C).

Gasket: Nitrile.

Vent Tube: 1/4 x 5 in. (6 x 127 mm) copper cane with 1/4 NPT x 1/4 in. (6 mm) tube fitting and 1/2 NPT to 1/4 NPT reducer fitting.

Snap-Switch: SPDT rated 10 A @ 125 VAC; 0.5 A @ 125 VDC; 10 A 30 VDC.

Wire: Wired to terminal block.

Laboratory Approvals:

CSA Listed for Hazardous Locations Class I,

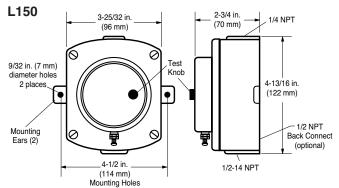
Division 1, Groups C & D.

Shipping Weight: 5 lbs. (2.26 kg.).

Shipping Dimensions: 6-1/2 x 6-3/4 x 6-3/8 in.

(165 x 171 x 162 mm).

Dimensions



EL150K1 2-3/4 in. 1/4 NPT (70 mm) 4-15/16 in Test 11/16 in Knob (17 mm) 4-13/16 in (122 mm) 1/2 NPT **Back Connect**

9/32 in. (7 mm)

diameter holes

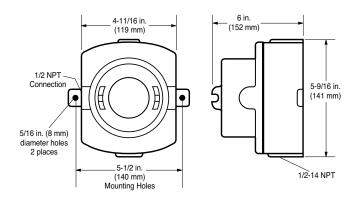
2 places

4-1/2 in

(114 mm)

Mounting Holes

EL150EX



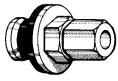
Warranty

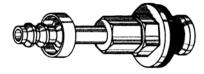
A limited warranty on materials and workmanship is given with this FW Murphy product. A copy of the warranty may be viewed or printed by going to www.fwmurphy.com/support/warranty.htm

Radiator Fittings

Murphy PS, PS Barbed and PS-D fittings allow the installation of the L150/EL150K1 to the radiator when a fitting is not available.

- •15-00-0107 (PS): thin wall, 1/4 in. (6 mm) tube fitting.
- •15-01-0167 (PS-Barbed): thin wall, 1/4 in. (6 mm) tubing or hose.
- •15-01-0202 (PS-D): for diesel or oil, thick wall (to 1/4 in. [6 mm]), accepts 1/2 in. (13 mm) I.D. hose or 1/4 in. (6 mm) O.D. tubing.





15-00-0107 (PS)

15-01-0167 (PS Barbed)

Repair Kits

L150	
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15-00-0138	All parts except
	case and body
15-00-0101	Case/body assembly

EL150K1

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15-00-0139	All parts except
	case and body
15-00-0101	Case/body assembly
15-00-0100	Lens/switch assembly

EL150EX

(optional)

1/2-14 NPT

15-00-0110	Cover and float assembly
	Lid assembly

15-00-0109 Switch/terminal assembly

Accessories

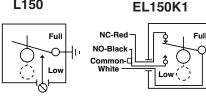
Specify	Description
15-00-0107	Radiator fitting (PS)
15-01-0202	Radiator fitting (PS-D)
15-01-0167	Radiator fitting (PS Barbed)

Standard Electrical Diagrams

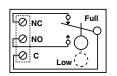


WARNING: This typical wiring diagram is shown for clarity only. It is not intended for use as installation instructions.





EL150EX



Fittings Kits Order Separately

15010235 FM3

15010236 FM4

15010237 FM5

15010238 FM12

15010349 CECO



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