

Lube Level Maintainer – Model LM500/LM500-TF



Features

- Test Feature (TF) allows test of float and switch
- Direct Mount (DM) capable
- · Eliminates under/overfill due to "human error"
- · See oil level and condition without shutting down
- · Simple installation
- · Automatically maintains lube level
- · Low level, 3-wire, snap-action switch
- Positive sealing Thumb-Valve™

Not intended for use with fuel

The Murphy LM500-TF Oil Level Maintainer includes a test feature that confirms both the float and switch are operating correctly with a single press of the test button. The LM500 series maintains the crankcase oil level of an engine, pump or compressor. Adjusted to the correct running-oil-level, it will replenish oil as it is used. The low-level switch will alarm and/or shutdown the equipment if supply oil is lost and the equipment continues to use oil.

Application

The LM500 maintains oil level on any size engine. It also supports installations that require a 3-wire, snap-action switch. Refer to LM500 Series Flow Rate Chart for application data.

Test Feature

The form C (3-wire) contact allows a controller/annunciator to be wired as a closed-loop system, resulting in a reliable fault-sensitive circuit.

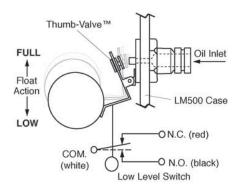
How the LM500 Maintains Levels

As crankcase oil level drops, the LM500 float also drops and opens the Thumb-Valve™. This allows oil to flow from the supply tank, through the LM500, and into the crankcase. When proper level is achieved in the crankcase, the LM500 float rises, causing the Thumb-Valve™ to close off further oil flow.

The simple and unique Thumb-Valve™ is non-clogging and provides a positive, leak-free seal.

Thumb-Valve Operation

If the clean oil supply is depleted and oil level continues to fall, the low level switch will operate an alarm or equipment shutdown.



Specifications

Crankcase Balance Vent Connection: 1/2 NPTF (top). Inlet Connection: 1/2 NPTF removable screen (side).

Outlet Connection:

2 x 3/4 NPTF (side) 1 x 3/4 NPTF (bottom)

Thumb-Valve™ Material: Viton.

Snap-switch: SPDT rating 10 A, 125 VAC; 0.5 A, 125 VDC; 10 A,

30 VDC.

Wire leads: 18 AWG x 14 in. ± 2 in. (355 mm) length. Conduit Connection: 1/2 inch conduit (female, top).

Case: Die cast aluminum

Lens: Clear "Frog Eye" non-staining, high impact, high temperature polycarbonate; UV and heat stabilized.

Dial: High visibility white background with solid green band for

normal level indication.

Maximum Inlet Pressure: 9.50 psi/25 ft. oil (head pressure).

Maximum Case Pressure: 15 psi (103 kPa).

Maximum Differential: 2 in. (51 mm) between running and

stopped.

Maximum Ambient Temperature: 250°F (121°C).

Float: 304 Stainless Steel

Flow Rates: Refer to LM500 Series Flow Rates chart for

application data.

Dimensions: Overall 6-9/16 inch tall x 6-3/16 inch deep x 3-1/2 deep. For exact dimensions, refer to document "00-02-0729

LM500 Installation Instructions".

LM500/LM500-TF Shipping Dimensions: $9.5 \times 7.5 \times 11$ in.

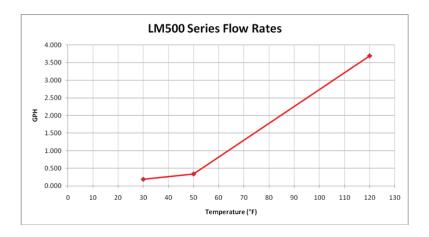
(241.3 x 190 x 279.4 mm).

LM500/LM500-TF Shipping Weight: 3 lbs. 13.44 oz (1.74 kg)

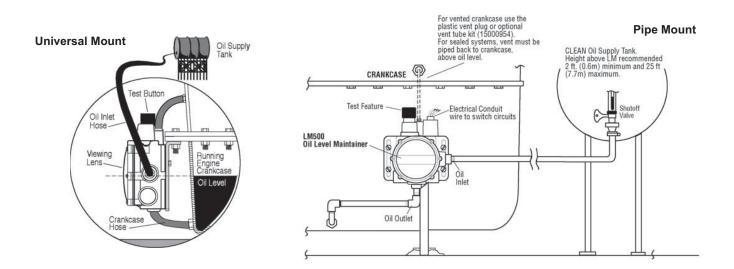
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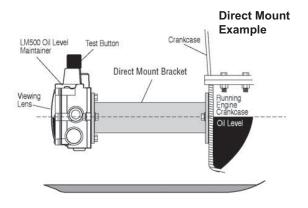
LM500 Series Flow Rates

LM500 Series Flow Rates are based on SAE 40 motor oil @ 2 ft. head pressure. Friction losses due to piping are not considered.



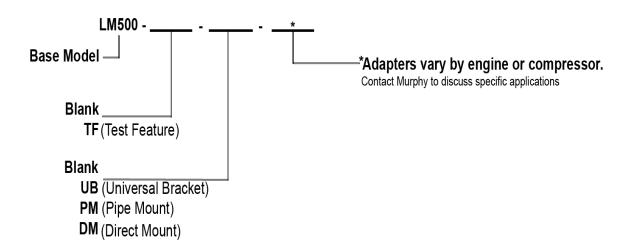
Typical Installations





How to Order

To order the LM500 use the model number designation diagram below. (Example for Pipe Mount: LM500-TF-PM)



Mounting Brackets with Hardware

In addition to the direct mounting option, Murphy offers two mounting brackets for the LM500. The Pipe Bracket Kit fits a 7/8 in. (22 mm) diameter pipe (see typical installation below). The Universal Flange Kit allows various mounting methods. For exact dimensions, refer to document "00-02-0729 LM500 Installation Instructions".

Accessories (Specify part number)

Description	Part Number
Vent Fittings Kit	15000954
Hose Kit	15000355
1/2 NPT x 1/2 in. Hose Barbed Fitting	89080801
3/4 NPT x 1 in. Hose Barbed Fitting	89081001
Pipe Bracket Kit	15000518
Universal Flange Kit	15000519
Bubble Lens Kit	15000532

Vent Fitting Kit: 15000954

One Tubing vent

One 1/4 x 1/2 NPT Connector

Hose Kit: 15000355

One 1/2 in. (13 mm) I.D. x 3 ft. (914 mm) long hose

One 1 in. (25 mm) I.D. x 3 ft. (914 mm) long hose

Two 1/2 in. (13 mm) worm gear clamp Two 1 in. (25 mm) worm gear clamp

Two 1/2 NPT x 1/2 in. (13 mm) barbed fitting

Two 3/4 NPT x 1 in. (25 mm) barbed fitting

Fittings Kit: 15000943

One Tubing vent

One Hose Barb, 1/2 NPT to 1/2 Hose One Hose Barb, 1" ID HOSE x 3/4 NPT

One Connector, 1/4 x 1/2 NPT

MURPHY摩菲仪表授权经销商: CNMEC Technology (Beijing) Co.,Ltd.

信德迈科技(北京)有限公司

地址:北京市朝阳区胜古中路2号金基业大厦201室

邮编:100029

电话: 010-8428 2935, 8428 9077,

Http://www.cnmec.com Email:sales@cnmec.biz 传真:010-8428 8762