

Lube Level Maintainer – Model LM500-TF-ATEX

	FeaturesATEX Certified, Zone 2, Category 3G
	• Ex ic IIC T5 Gc X -20°C < Ta < 85°C
	Environmental Sealing: IP54
	• Test Feature (TF) allows test of float and switch
	Direct Mount (DM) capable
MURPHY	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™
ΑΤΕΣ	Not intended for use with fuel

The Murphy LM500-TF-ATEX 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-TF-ATEX 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.

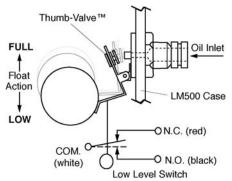
How the LM500 Maintains Levels

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.

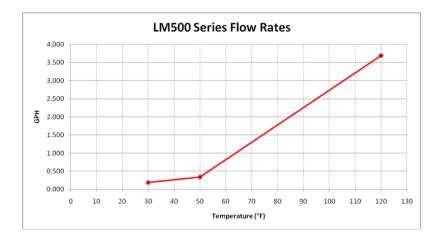


Specifications

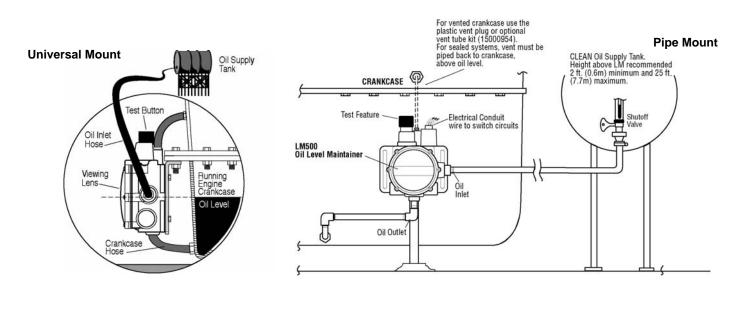
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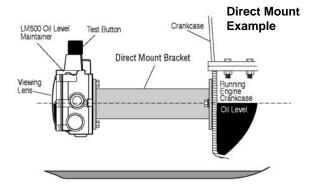
LM500 Series Flow Rates

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



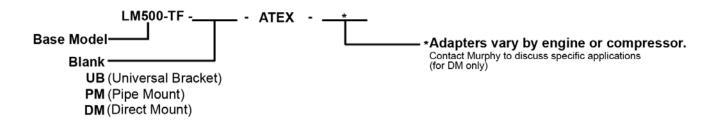
Typical Installations





How to Order

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



Mounting Brackets with Hardware

In addition to the direct mounting option, Murphy offers two mounting brackets for the LM500-TF-ATEX. The Pipe Bracket Kit fits a 7/8 in. (22 mm) diameter pipe (see typical installation below). The Universal Bracket Mount Kit allows various mounting methods.

For exact dimensions, refer to document "00-02-0745 LM500-TF-ATEX Installation Instructions".

Accessories (Specify part number)

Accessories (Specify part number)		Hose Kit: 15000355
Description	Part Number	One 1/2 in. (13 mm) I.D. x 3 ft. (914 mm) long hose
Hose Kit	15000355	One 1 in. (25 mm) I.D. x 3 ft. (914 mm) long hose
1/2NPT x 1/2 in. Hose Barbed Fitting	89080801	Two1/2 in. (13 mm) worm gear clamp
3/4NPT x 1 in. Hose Barbed Fitting	89081001	Two 1 in. (25 mm) worm gear clamp
Pipe Bracket Kit	15000518 15000519	
1		Two1/2 NPT x 1/2 in. (13 mm) barbed fitting
Universal Bracket Mount Kit		Two 3/4 NPT x 1 in. (25 mm) barbed fitting

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Printed in the USA

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