

ELECTRO-LUBER™ MD 2000 TITAN OILER

INSTALLATION INSTRUCTIONS

Working Principle

The **Electro-Luber MD™ 2000 TITAN OILER** is a self-contained, microprocessor controlled, motor driven automatic lubricator. The **TITAN OILER** uses gravity to feed oil into a temperature compensating, fixed displacement pump. This dispenses the oil at pressures up to 900psi. This pressure allows the **TITAN OILER** to be used with long feed line pipework, and it can even cycle progressive distributors, allowing one **TITAN OILER** to feed several bearings. When one or a combination of selector switches are turned on, the unit will activate at selected intervals. (see chart on page 2). At each interval, the **TITAN Oiler** will delivery approximately 2cc. of oil. This output is not affected by temperature or altitude. When the unit is empty It can be refilled by simply pouring oil into the reservoir.



General Information

On first installation it is important to ensure that the bearing or chain, etc. is prelubricated with the required oil. If fittings or feed lines are used, these also should be filled with the same oil. The **TITAN Oiler** has a priming nipple for this purpose.

All **TITAN OILER** units have 1/8" NPT female threads.

If the **ELECTRO-LUBER MD™ TITAN OILER** is remotely mounted, use minimum 1/4" I.D. tubing for up to 200 feet

It is important to make sure you prime all piping and lube points prior to installing the ELECTRO-LUBER MD™ TITAN OILER.

In low temperature applications use Lowtemp lubricants.

To ensure the success and reliability of your **ELECTRO-LUBER MD™ TITAN OILER** installation, do not use in temperatures below 5 deg. F. (-15 deg. C.) or above 132 deg. Fahrenheit (55 deg. C.), or in an application requiring more than 900 psi. The **TITAN OILER** unit is designed to feed multiple points using progressive distribution blocks.



This equipment is suitable for use in:

Class 1, Division 2, Groups A,B,C,D; Class II, Division 2, Groups F & G; Class III or non-hazardous locations only.
T-Code T6 55°C

In Conformity to European Norms
Ex nL IIC T3 II 3 G



WARNING: Explosion Hazard – substitution of components may impair suitability for Class I, II & III, Division 2 locations.

WARNING: Explosion Hazard – batteries must only be changed in an area known to be non-hazardous.

CAUTION: The battery used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat above 100° C (212° F) or dispose of in fire. Dispose of used battery promptly.

Starting Procedure

Fill the reservoir of the **TITAN OILER** with your desired oil. Referring to the dispensing rate chart on page 2, select the dispensing time and amount of lubricant required. Then set the appropriate switch or switches to the setting which corresponds to the period of time it takes to empty the unit. This action activates the unit, and within 1 minute the first cycle will commence dispensing. If the unit is used with a progressive distribution block to feed multiple bearings, the cycle time must be adjusted accordingly. (example: if the unit is feeding a 4 port block, set your **TITAN OILER** to empty 4 times faster than if it was feeding a single bearing).

Operating Procedure

If it is desired to increase or decrease the lubricant dispensing rate during operations, simply click the switch or switches in use to OFF, Then click on the new switch setting for the revised rate.

To turn **OFF** the **ELECTRO-LUBER MD™ TITAN OILER** set all switches to **OFF**.

The **ELECTRO-LUBER MD™ TITAN OILER** can be disconnected at any time without lubricant discharge, but feed lines may empty.

Switch 7 is the purge switch. If your bearing requires an immediate shot of oil, turn **ON** switch 7. When the **TITAN OILER** unit starts operating, turn switch 7 **OFF**. The **TITAN OILER** unit will run for approximately 30 seconds. If you require more purging, repeat the procedure.

While the unit is operational, the green LED light will flash green once every 20 seconds, indicating the electronics are functioning properly.

During the pump cycle, the green LED will flash green approximately once per second, indicating that the pump is turning and pumping oil.

If there is a problem with the unit it will be indicated by the Red or Blue LED flashing every 20 seconds as follows:

- 1 red flash indicates that the unit has an internal limit switch error and is running in the failsafe mode. (unit is dispensing by time instead of motor revolutions)
- 2 red flashes indicate that the battery is low and must be replaced shortly.
- 1 blue & 1 red flash indicates that the oil reservoir is low and should be refilled shortly.
- 2 blue flashes indicate that the unit is paused via the remote control option.
- 4 blue flashes indicate that the units operation is halted due to a low ambient temperature. When the temperature goes above 5 degrees F. (-15 degrees C.), the unit will resume operation.

Power

The battery packs for the **TITAN OILER** must be changed when the red light flashes, as described above. The batteries should last at least one complete fill cycle, but please note that battery life is affected by temperature, bearing backpressure and unit setting; actual life varies. To change the battery pack, remove the top cover, unplug and remove the old battery, and then install and plug in the new battery pack. The battery packs, complete with connectors, may be purchased directly from the factory. It is recommended that you have a spare battery pack to avoid a prolonged outage.

Optional alternate power sources are available, please consult the factory or your salesperson.

ALWAYS AVOID OVER-LUBRICATING.

Selection of Switch Settings

For reference, a typical medicine dropper is about 2.5cc. To select the switch setting for your application, look down the Daily Output column for the desired output of lubricant. The switches of the **TITAN OILER** are numbered 1 through 7, and correspond to the setting for your selection as shown in the chart below.

Electro-Luber MD 2000 TITAN OILER Dispensing Rate Chart

Days to Empty	Cycle Time (hrs)	Approx. Daily Output		Switch 1 (15 day)	Switch 2 (30 day)	Switch 3 (60 day)	Switch 4 (120 day)	Switch 5 (240 day)	Switch 6 (480 day)	Switch 7 (purge)
		ml.	Cl.							
15	0.5	96.0	5.86	ON	OFF	OFF	OFF	OFF	OFF	OFF
30	1.0	48.0	2.93	OFF	ON	OFF	OFF	OFF	OFF	OFF
45	1.5	32.0	1.95	ON	ON	OFF	OFF	OFF	OFF	OFF
60	2.0	24.0	1.46	OFF	OFF	ON	OFF	OFF	OFF	OFF
90	3.0	16.0	0.98	OFF	ON	ON	OFF	OFF	OFF	OFF
120	4.0	12.0	0.73	OFF	OFF	OFF	ON	OFF	OFF	OFF
150	5.0	9.6	0.59	OFF	ON	OFF	ON	OFF	OFF	OFF
180	6.0	8.0	0.49	OFF	OFF	ON	ON	OFF	OFF	OFF
240	8.0	6.0	0.37	OFF	OFF	OFF	OFF	ON	OFF	OFF
300	10.0	4.8	0.29	OFF	OFF	ON	OFF	ON	OFF	OFF
360	12.0	4.0	0.24	OFF	OFF	OFF	ON	ON	OFF	OFF
480	16.0	3.0	0.18	OFF	OFF	OFF	OFF	OFF	ON	OFF
600	20.0	2.4	0.15	OFF	OFF	OFF	ON	OFF	ON	OFF
720	24.0	2.0	0.12	OFF	OFF	OFF	OFF	ON	ON	OFF

For other settings or special applications, please consult the factory or your Electro-Lube Sales Representative

For more information, please visit our website at www.atselectrolube.com

ATS Electro-Lube International, Inc.
7388 Wilson Ave. Tilbury Industrial Park
Delta, B.C. V4G 1H3 CANADA

E.&O.E. Rev. 05/12

Factory Direct

Phone: 800-663-8141 Fax: 800 663-8140

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