ELECTRO-LUBER ™ MD

TITAN OILER ™

INSTALLATION INSTRUCTIONS

Working Principle

The **Electro-Luber ™ MD - 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 over 1000 psi. 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. The capacity of the oil tank is 1.4 litres (47.34 oz. or 1400 ml). 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 deliver approximately 2cc. of oil.
When the unit is empty, it can be refilled by simply pouring oil into the reservoir.

MUST USE A.T.S. BATTERY PACKS TO MAINTAIN ARRANTY AND UL LISTED STATUS

General Information

On installation, it is important to ensure that the bearing or chain, etc. is pre-lubricated 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.

It is important to make sure you prime all piping and lube points prior to installing the TITAN OILER™.
All **TITAN OILER** units have 1/8" NPT female threads.

If the **TITAN OILER™** is remotely mounted, use minimum 3/8" O.D. by minimum 1/4" I.D. tubing for up to 200 feet.
A TITAN OILER Distribution Kit with oil resistant Polyurethane tubing, fittings including check valves is available. Please contact the Factory or your salesperson for more information.

Each TITAN OILER™ is supplied with a clear weatherproof top cover & oring and weather cap to protect the circuitry. They MUST be used in all cases as protection against weather and moisture.

To ensure the success and reliability of your **TITAN OILER**, do not use in temperatures below -4º F or above 131º F (-20º C to 55º C), or in an application requiring over 2000 psi. In low temperature applications, use low temp lubricants. The **TITAN OILER** unit is designed for single-point applications up to 200 feet or multiple-point using a progressive distribution block up to 60 feet.

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.
Maximum T-Code T6 55ºC

WARNING: Explosion Hazard – substitution of any 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 100º C (212º F) or dispose of in fire. Dispose of used battery promptly in accordance with the regulations of your jurisdiction.

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 **TITAN OILER™** set all switches to **OFF**.
The **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 2 minutes. If you require more purging, repeat the procedure.

LED LIGHT FUNCTIONS:

LED	SIGNAL	SIGNAL TIME	MEANING
Green	1 Flash	Every *10* Seconds	Operation OK
Green	1 Flash	Every 1 Second	Currently pumping oil
Red	1 Flash	Every 10 Seconds	If Internal limit switch counter is faulty, the unit will go into an operational timed failsafe mode.
Red	2 Flashes	Every 10 Seconds	Low battery. Must be replaced shortly.
Red & Blue	1 Flash each	Every 10 Seconds	Oil in reservoir is low and should be refilled shortly.
Blue	2 Flashes	Every 10 Seconds	Unit paused via remote option (if used here)
Blue	4 Flashes	Every 10 Seconds	Unit paused due to low ambient temperature. Unit will resume operation when temperature goes above 5 degrees F (-15 degrees C).

NOTE – The lubricants dispensed by this equipment are to have flash points greater than 200° F.
WARNING – PRODUCT MUST BE SET UP AND USED WITHIN THE PARAMETERS IN THESE INSTALLATION INSTRUCTIONS. USE OF THE PRODUCT OUTSIDE OF THE STATED PARAMETERS CAN CAUSE THE UNIT TO BURST AND RESULT IN BODY INJURY.

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.

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
945	31.5	1.52	0.09	ON	ON	ON	ON	**ON**	**ON**	OFF

For other settings or special applications, please consult the factory
or check our website for your nearest Distributor.

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

Factory Direct

A.T.S. Electro-Lube International Inc. **Phone: 800-663-8141 Fax: 800-663-8140**
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BS EN ISO 9001:2015
FM 66860

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A.T.S. Electro-lube International Inc. has a limited warranty. The full text of the warranty can be found on our website: www.atselectrolube.com