

PLC Powered and Controlled Lubrication



Description

The MEMOLUB[®] 24V-PLCd model lubricator is especially designed for PLC-controlled machinery (or mobile equipment) where a 24VDC power supply is available. It is ideal for lubricating a wide variety of robots, conveyors, and OEM applications. The MEMOLUB[®] 24V-PLCd can be direct-mounted for single-point applications, or remote-mounted using pipe or flexible tubing. In addition, lubrication from 2 to 12 lube points is possible with a MEMOLUB[®] Multi-Point Lubrication System.

The MEMOLUB[®] 24V-PLCd lubricator has a unique design utilizing a Power-Through Memo which contains the electrical connections needed to power the unit. This gives the user the ability to quickly remove the lubricator for fast lubricant cartridge change-out while avoiding contact with the electrical connections. A 5-foot extension cable on the Power-Through Memo is connected to a PLC-controlled power supply. The PLC program controls the frequency of lubrication output cycles, which may be based upon elapsed clock hours, machine cycles, a count of parts produced, or other desired criteria. Further control is provided by adjusting the volume of lubricant ejected on each cycle. A set of 8 special stroke-limiting washers are supplied with each lubricator. When the Power-Through Memo is used without washers (yielding full piston stroke), the output volume at each stroke is 0.635cc. For each washer (including the "C"-shaped lock washer) inserted into the brass adapter of the Power-Through Memo, the output volume is decreased by 0.04cc per stroke.

(Note: The lock washer should always be inserted last to hold the others in place.)

Output per spacer washers:

0 = 0.63cc/stroke 2 = 0.55cc/stroke 4 = 0.47cc/stroke 6 = 0.39cc/stroke 8 = 0.31cc/stroke
1 = 0.59cc/stroke 3 = 0.51cc/stroke 5 = 0.43cc/stroke 7 = 0.35cc/stroke

The MEMOLUB[®] 24VDC-PLC is available in three sizes: the Standard (Model 120), the Mega (Model 240), and the Giga (Model 480). Like the HPS model, it is reusable with available replacement lube cartridges. These cartridges are carefully filled at the factory using a precise centrifuging process that eliminates air pockets and contamination. Cartridge change-out normally takes less than 60 seconds! MEMOLUB[®] is a valuable alternative to time-consuming and costly manual lubrication.

Specifications:

- * PLC-controlled lubrication cycles
- * 2-wire, 5ft extension cable, Brown(+), Blue(-)
- * Input voltage: 24VDC
- * Max Amps: .5A
- * Single cycle duration: 7.5 seconds
- * Minimum time between output cycles: 10 Minutes
- * Maximum continuous running time: 30 Seconds
- * Polarity Protection



The Power-Through Memo

Lubricator Installation Instructions



1. Program the volume of lubricant output by inserting the stroke-limiting washers.



2. Install the Power-Through Memo fitting, either direct or remote mounted.



3. Screw the MEMOLUB[®] 24VDC-PLC on the Power-Through Memo fitting.



4. The MEMOLUB[®] 24VDC-PLC must be connected to a PLC for its power supply. The PLC determines the frequency of output cycles. *(PLC Not Included)*

Lubricant Cartridge Change Out Instructions



1. To open, place the lubricator upright on flat surface. Press firmly and turn locking ring counter-clockwise while holding the ribbed surface.



2. Remove the paper, disk-shaped label from the replacement cartridge and fill in the "Start Date" and "Change Date".



3. Carefully squeeze air out of the cartridge until grease begins to emerge from the outlet.



4. Place the cartridge on the inlet of the red housing.

Grease Cartridges Only.



3. Hold the cartridge with the outlet facing up. Carefully remove the cartridge plug. Turn the red housing over and gently place it on the outlet of the cartridge.



4. While holding the cartridge and red housing together, flip the assembly over and hold the cartridge in place.

Oil Cartridges Only.



5. Place the clear housing assembly over the lubricant cartridge and red housing.



6. Holding the locking ring by its ribbed surface, turn it clockwise until it clicks into the locked position.



8. Screw the MEMOLUB[®] HPS lubricator onto the Power-Through MEMO.



Note: If necessary, prime the MEMOLUB[®] HPS with a hand grease gun.

Grease cartridges only:

SAFETY PRECAUTIONS

* ***Warning:*** Lower red housing contains a loaded spring. ***Do not open.***

* ***Use only factory pre-filled cartridges with MEMOLUB[®] lubricator.***

