Pulsarlube PLC-OL480
USER MANUAL

PNP TYPE

1. General Information

1-1. Product Description

Technical information is subject to change without notice.

Specifications	Description
Oil Reservoir Capacity	480ml (Refillable)
Operation Pressure	10bar (145psi) (Depends on oil viscosity)
Power Supply	DC 9 ~ 36V
Output Current	Max. 1A (1,000mA)
Operation Temperature	-20℃ ~ 60℃
Available Dispensing Periods	MONTH TYPE : 1 ~ 12 Month INTERVAL TYPE : 1 ~ 6 Mode
LCD	Backlit LCD

· To ensure the safe operation and proper installation of the Pulsarlube PLC-OL480 unit, we strongly recommend that you read the following information carefully before use.
· If you require further information, please contact your local supplier or manufacturer.
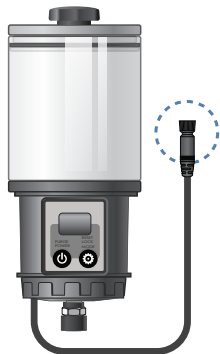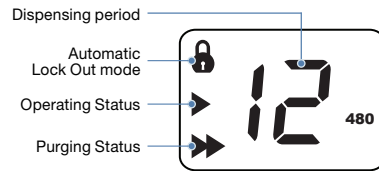
1-2. LCD Display Description
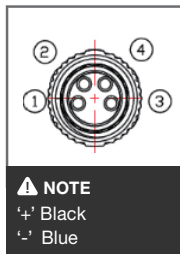

Backlit LCD

Extreme Backpressure Indication

Blinks when selected cycle ends

Purge mode in operation

Dispensing period

Automatic Lock Out mode

Operating Status

Purging Status

1-3. PLC Connecting Cables (colors) (Body Cable View)

	Color	Function
①	Black	VCC (Power Supply Cable)
②	White	Signal Out (Alarm Signal Cable)
③	Blue	GND (Power Supply Cable)
④	Brown	Signal In (Operation Signal Cable)

⚠ NOTE
'+' Black
'-' Blue

1-3. Connection Methods (Extension Cable)

PNP TYPE (SOURCE)

PULSARLUBE PLC   POWER SUPPLY   PLC CONTROLLER

Digital I/O (Input/Output)
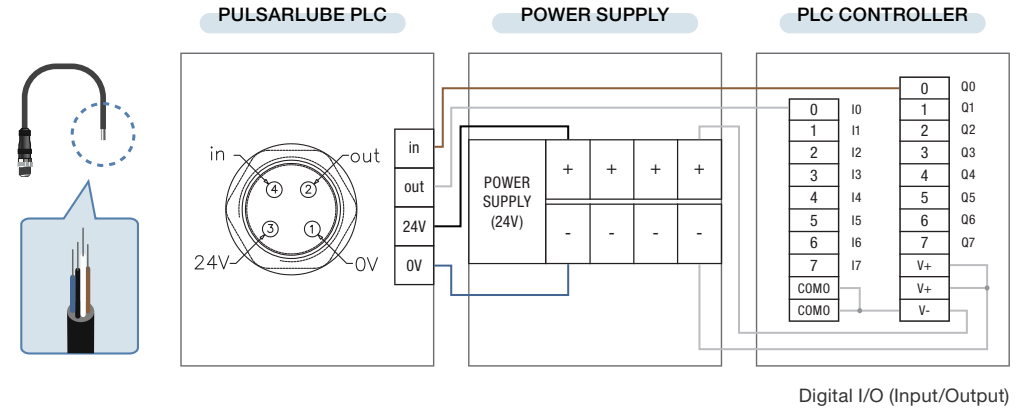
### 1-4. Accessories for Oil Lubrication

Remote / Multi Point Installation Kits (Kit No.1250RO1~4) and Brush kits (Kit No.C030~33, C036~39) are sold separately. Please refer to the Accessories page and Kit user manual on the website.

2. Installation and Operation

2-1. Installation Guidelines

Direct Mount, Remote Installation

Brush Kit Installation
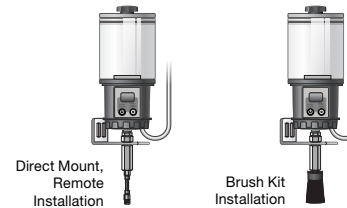
Single Point Installation using Brush Kit
Install appropriate accessories and brush kits.
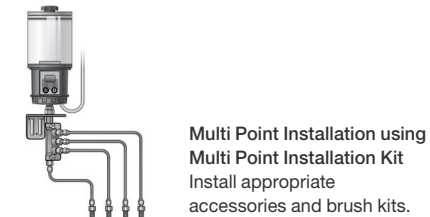
Multi Point Installation using Multi Point Installation Kit
Install appropriate accessories and brush kits.

· Mount the Pulsarlube PLC-OL480 unit in close proximity to the application to keep feed lines as short as possible.
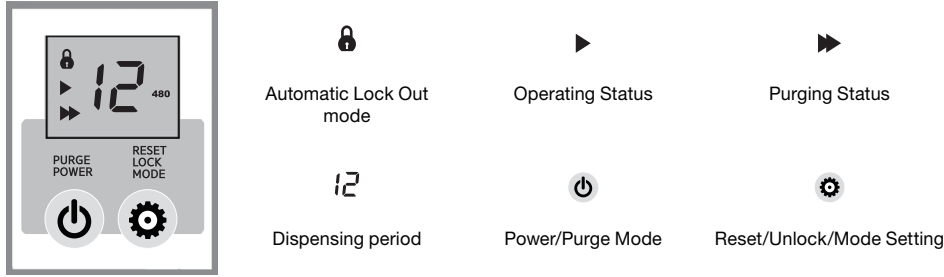· Accessories are sold separately.
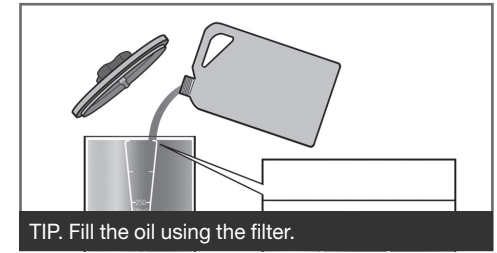
TIP. Fill the oil using the filter.

After install the appropriate accessories for the selected installation method, remove the oil reservoir lid and fill the reservoir with oil to the 480ml level.
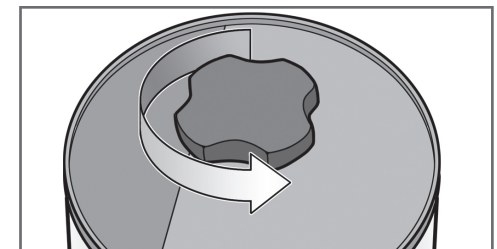
Turn the hand knob counter clockwise 1~2 turns before closing the lid to open the vent and relieve vacuum pressure.

2-2. LCD Display

🔒 Automatic Lock Out mode

▶ Operating Status

▶▶ Purging Status

_12_ Dispensing period

⏻ Power/Purge Mode

⚙ Reset/Unlock/Mode Setting

2-3. Button & LCD Functions

To be able to perform the functions below, please make sure that the lubricator's auto lock function is deactivated by pressing the MODE button for 3 seconds.

⏻ Power ON	Press for 3 seconds to power on.	(Month Type) `n 480` `1 480` → `1 480` (Interval Type) `r 480` `1 480` → `1 480`
⏻ Power OFF	Press for 5 seconds to power off.	`▶▶ P 480` → ` `
⏻ Purge Mode	Activate : Hold the button until (P) appears on the screen. Stop : Short press of the button to stop	`▶▶ P 480` → 6 Continuous Cycles `P 480` → `▶ 3 480`
⚙ Mode Setting	Short press of the MODE button to program the dispensing period. · 1 ~ 12 month for MONTH type · Mode 1 ~ 6 for INTERVAL type	`3 480` → `🔒▶ 3 480`
⚙ Unlock	Press until Lock icon (🔒) disappears.	`🔒▶ 3 480` → `▶ 3 480`
⚙ Reset	After lock function has been deactivated, press the MODE button for 5 seconds.	`▶ 3 480` → ` `
⏻ + ⚙ Backlight	Press the MODE button while holding down the POWER button.	`▶ 3 480` → `▶ 3 480`

3. Reference

3-1. Troubleshooting Guidelines

Malfunctioning unit

		Possible Causes	Troubleshooting Steps
Normal	`🔒▶ 12 480`	· Electrical malfunction of CPU · Possible contact problem (open circuit) with programming buttons on the lubricators' control panel	· Reset the unit. · If technical difficulty continues, please contact your local supplier or manufacturer for further assistance.
Malfunction	` `	· Possible electrical malfunction of CPU or circuitry	· Reset the unit. · If technical difficulty continues, please contact your local supplier or manufacturer for further assistance.

Dispensing failure

|	Cause	Steps
`0 480`	Extreme backpressure caused by: · Kinked lube line · Long distance remote installation · Small inner diameter of lube line	⏻ → `▶▶ P 480` (Activate Purge mode) · Ensure that lubricator is dispensing properly. · Reinstall the lubricator after resolving the cause of backpressure.
`▶ 3 480`	· Foreign material in the pump · Air pockets in the reservoir	· If the foreign material in the pump, Remove the foreign material using an air gun. · If the reservoir has Air pockets, Activate purge mode, then gently press down a hole on the upper check valve using 1.5mm pin 2-3 times to remove the air inside.
`🔒▶ 3 480`	· When the selected dispensing period ends, LCD backlight will activate and display will blink.	· Fill the reservoir with oil, then reset the unit.

3-2. Warnings
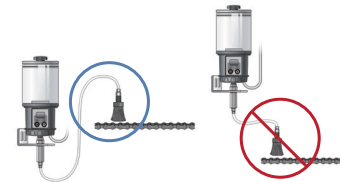
For oils below ISO VG 100, make sure to install PLC-OL480 below the lube points to avoid oil leaks. During the installation, it is recommended to wrap the tube several times to prevent leakage.

Screw
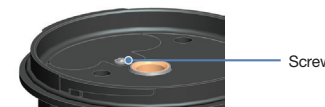
Please do not disassemble the part shown in the picture. It may result in serious damage or malfunction of lubricator. The Pulsarlube PLC-OL480 is not a battery-operated product. If you require further information about installation and setting, please refer to the technical information on the website.