







5.4 Switch on the display backlight

Deactivate the key lock. Press and hold  and press . The display backlight is activated for 5 seconds.




5.5 Change dispensing time setting

The set dispensing time can be changed at any time during operation. Deactivate the key lock. Press and hold  for 3 seconds until  disappears. Then keep pressing  until the desired dispensing time is reached.



5.6 Reset

To reset the unit to the default settings, deactivate the key lock and press and hold  for 5 seconds. The display lights up briefly and then goes out. The lubricator is now switched off.

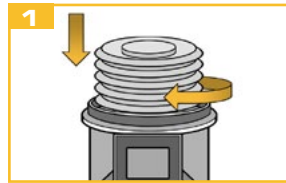
5.7 Start test mode

The test mode is suitable for testing the function of the lubricator or for filling lines and connecting parts with grease. Deactivate the key lock. Press and hold  for 3 seconds until  and  appears on the display. The test mode is now activated, 6 lubrication cycles are triggered (6x 0.34 ml).

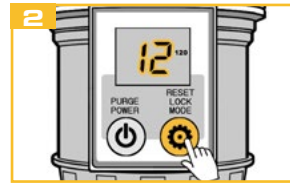
5.8 Stop test mode

Deactivate the key lock. Press  once while the device is running in test mode. After the current lubrication cycle is finished,  disappears and the lubricator goes back into normal operation.

6. Changing the cartridge







1
Screw off the top section and the empty cartridge. Change the cartridge.



2
Reset the device after changing the cartridge (see „5.6 Reset“) and then set the dispensing time again.

7. Cable assignment

Please only use the connection cable supplied.

	Colour	Assignment
	black	Power connection (9 - 24 V DC)
	blue	Ground (GND)
	brown	Input signal "machine active" (24 V DC)
	white	Output signal

An **output signal** can be tapped on the white cable (e.g. for connection to an indicator light or a PLC). A HIGH signal is sent for the status messages 'Excessive back pressure' and 'Dispensing time expired' (see „10. Status messages“).

7.1 Input signal

To connect the lubrication system to a power supply, simply join the black cable (power connection) to the brown cable (input signal) and connect them together. In this way, the device receives an input signal as soon as a connection to the power supply is established.

If the input signal is to be triggered independently of the power supply, the brown cable is connected to a separate signal source.

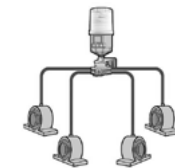
If the lubricator does not receive an input signal (24 V DC), it will enter sleep mode and will not deliver any lubricant.

8. Mounting

Direct mounting is always preferred.

If the application does not allow direct mounting, remotely assemble the unit using appropriate accessories and keep the distance from the lube point as short as possible (maximum 5 metres).

For **remote installations** use a 4 mm (inner diameter) tube pre-filled with the same or compatible grease as the grease contained in the unit.

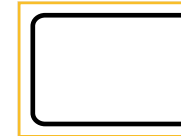


Multiple point installation is possible using a progressive distributor. Do not block any connections to the progressive distributor. Instead use a suitable distributor in accordance with the number of lubrication points. Keep the distance between the distributor and the lubrication unit as short as possible.

9. Important information

- The lubricant dispenser is **not** suitable for use with oil.
- Minimize tube resistances. Narrow passages and right angles should be avoided.
- During operation of the device a visual inspection of the device as well as of the lubrication point must be carried out regularly.
- Product warranty is limited to original defects in material and workmanship and does not cover any collateral damage due to mishandling, abuse and/or any other inappropriate use of the device.
- The maximum storage temperature should not exceed +40 °C (+104 °F). Higher temperatures decrease the lubricants lifespan. The lubricator has to be activated within two years from receiving.

10. Status messages



Blank LCD screen

Cause:

Electrical fault in the CPU or the power circuit

Remedy:

Check the power supply. Press the RESET button to restart the lubricator. If the problem persists, contact your supplier.




Dispensing time expired

When the running time of the lubricator has ended, the illuminated display starts to flash.



Remedy: Replace the cartridge. (see „6. Changing the cartridge“).



Excessive back pressure

If the back pressure is too high,  appears and the illuminated display starts to flash.

Remedy: Start the test mode

When the display stops flashing and  disappears, the appliance switches to operating mode. No further action is required. If the display continues to show , check the back pressure at the lubrication point and the lines. The lubrication point may be blocked, the hose length may be too long and/or the grease may be too hard. If the problem persists, please contact your supplier.



Display error on LCD screen

Cause:

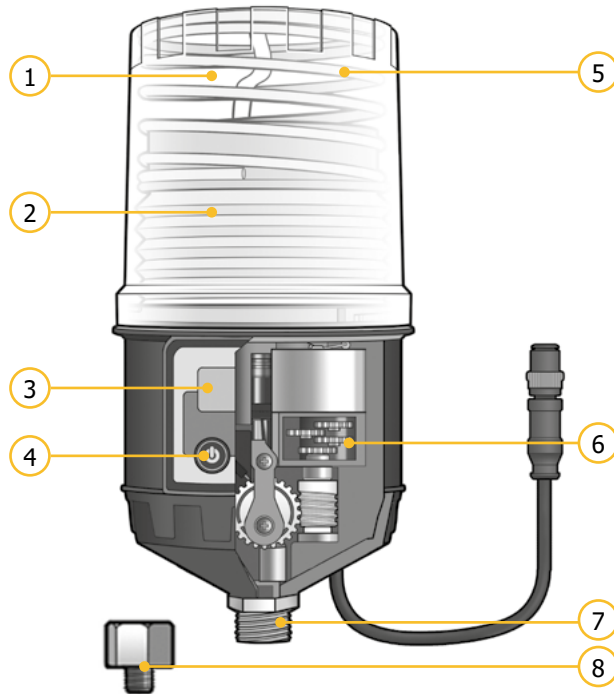
Electrical fault in the CPU or the power circuit

Remedy:

Press the RESET button to restart the lubricator. If the problem persists, contact your supplier.



1. Product details



No.	Description	No.	Description
1	Housing	5	Pressure spring
2	Lubricant cartridge	6	Drive
3	Display	7	Thread male 3/8"
4	Dispensing setting	8	Reducer 3/8" x 1/4"

2. Technical data

Housing		
Operating temperature	-20 ... +60*	°C
Dimensions (height x Ø)	60/120 ml: 181 x 91, 240 ml: 208 x 91, 480 ml: 260 x 92	mm
Lubricant and hydraulic		
Lubricating medium	greases up to NLGI class 2	
Lubricant volume	60/120/240/480	ml
Number of lubrication points	up to 12 (with progressive distributors)	
Max. operating pressure	60	bar
Grease delivery per stroke	0,34	ml
Distribution period	1-12 months	

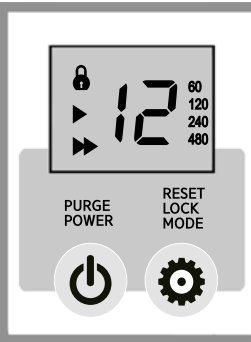
Electrics		
Working voltage (DC)	9 ... 36	V
Protection class	IP65	

* The stated value is down to the individual application and may extensively differ in some cases (depending on the lubricant and further conditions).

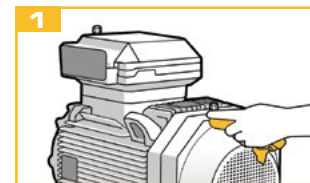
3. LCD & key assignment

Key assignment	
	POWER: Switch device on and off
	PURGE: Start test mode
	LOCK: Unlock device
	MODE: Set dispensing time (1-12 months)
	RESET: Reset to default setting (in the event of a malfunction or after refilling)
	Backlight ON: Press and hold and press .

LCD-display	
	Dispensing time set
	Device locked
	Operating mode
	Test mode
60 / 120 240 / 480	Cartridge capacity



4. Installation

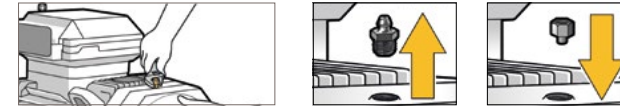


Remove any contaminants around the lube point.



Ensure a clear passage using a manual grease gun.

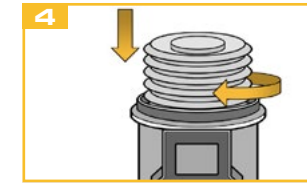
NOTE The reliable operation depends on completely filled grease lines. Ensure that the grease lines are not blocked. Therefore, grease them before starting the device. Remove any hardened grease by purging the lube point with a manual grease gun. The grease in the equipment and the grease in the unit should be the same or compatible.



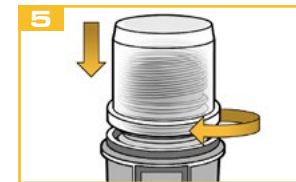
NOTE Remove the grease nipple and install proper connectors.



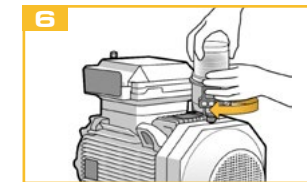
Press the cartridge lightly so that some lubricant escapes.



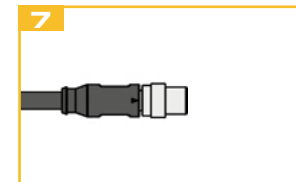
Screw in the cartridge without overtightening it.



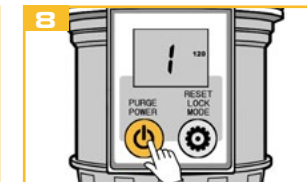
Screw the top section onto the drive unit. The top section locks into place with an audible click.



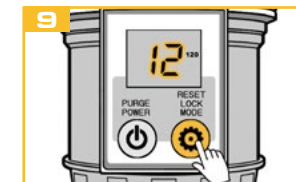
Fix the lubricator in the desired position.



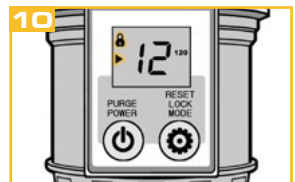
Connect the device to a suitable power source / PLC using the enclosed connection cable. (see „7. Cable assignment“).



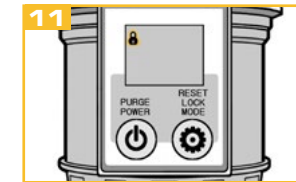
Keep pressed for 5 seconds to switch on the device.



While the displayed months are flashing, press repeatedly until the desired dispensing time appears in the display.



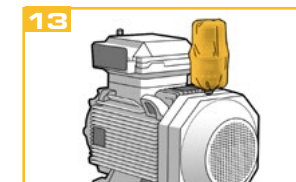
Wait for 7 seconds. The key lock is now activated and the lubricator is ready for operation (and appear in the display).



In sleep mode, only the symbol is shown on the display. The device does not deliver lubricant. (see „7.1 Input signal“)



Note the installation and due date on the drive unit.



Pull the dust protection cover over the lubricator where necessary.

5. Operation and settings

5.1 Switch on/off

Deactivate the key lock. Press and hold for 5 seconds to switch the lubricator on or off.

5.2 Exit sleep mode

If only the symbol is shown on the display, the device is in sleep mode because it is not receiving an input signal (see '7.1 Input signal'). Press and hold for 5 seconds to interrupt sleep mode and change the settings.

5.3 Key lock

The symbol in the display shows the activated key lock. The key lock is automatically activated as soon as there is no key operation for 7 seconds. Press and hold for 3 seconds to deactivate the key lock. The symbol disappears.