5.4 Switch on the display backlight

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

5.5 Change dispensing quantity setting

The set dispensing quantity 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 quantity 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

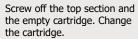
The test mode is suitable for testing the function of the lubricator or for filling lines and connecting parts with grease. Deactivate the key lock. Press and hold Φ for 3 seconds until P and \Rightarrow appears on the display. The test mode is now activated, 6 lubrication cycles are triggered (6x 0.34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







Reset the device after changing the cartridge (see "5.6 Reset") and then set the dispensing quantity 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 (24 V DC) |
| | white | Output signal |

8. Input / output signals

8.1 Input signal

A dispense is triggered by a **signal (HIGH 24 V DC)** with a length of **2 seconds** from the PLC. A **pause of 5 minutes** must be observed between two signals from the PLC. The pause ensures that the device does not overheat.

8.2 Output signals

An output signal can be tapped at PIN 2 (white). A permanent HIGH signal is sent for the status message **"Running time ended"**.

A square-wave signal (alternating 4.75 sec. HIGH and 0.25 sec. LOW) is sent for the status message **"Back pressure too high"**.

9. Dispensing quantity

You can set the number of strokes per dispensing on the device. $0.34\ ml$ are dispensed per stroke.

| Set value | 1 | 2 | 3 | 4 | 5 | 6 |
|----------------------------------|------|------|------|------|------|------|
| Quantity per dispensing in ml | 0.34 | 0.68 | 1.02 | 1.36 | 1.70 | 2.04 |

10. 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 (5 metres max.).

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.

11. 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.

12. Troubleshooting



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, \square appears and the illuminated display starts to flash.

Remedy: Start the test mode

When the display stops flashing and \square disappears, the appliance switches to operating mode. No further action is required. If the display continues to show \square , 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.



User manual GL-EM-D

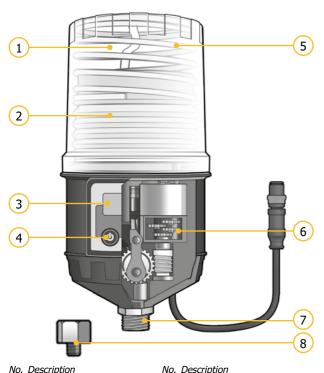




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1. Product details



| 740. | Description |
|------|-------------|
| _ | |

1 Housing

2 Lubricant cartridge

3 Display

4 Dispensing setting

scription N

5 Pressure spring

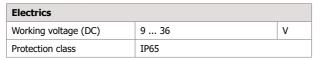
6 Drive

7 Thread male 3/8"

8 Reducer 3/8" x 1/4"

2. Technical data

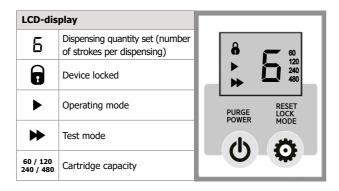
| Housing | | | | | |
|------------------------------|------------|---|-----|--|--|
| Operating temperature | | -20 +60* | °C | | |
| Dimensions (height x Ø) | | 60/120 ml: 181 x 91, 240 ml: 208 x 91, 480 ml: 260 x 92 | mm | | |
| Lubricant and hydraulic | | | | | |
| Lubricating medium | | greases up 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 | | |
| Grease per dispensing | | 0,34 - 2,04 | ml | | |



* 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 | |
| 0 | PURGE: Start test mode | |
| | LOCK: Unlock device | |
| O | MODE: Set dispensing quantity | |
| | RESET: Reset to default setting (in the event of a malfunction or after refilling) | |
| ψ + Φ | Backlight ON: Press and hold Φ and press Φ. | |



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 qun.

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 PLC using the enclosed connection cable.

(see "7. Cable assignment").



Keep Φ pressed for 5 seconds to switch on the device.



As soon as the displayed number (number of strokes per dispensing) flashes, the dispensing quantity can be changed by repeatedly pressing **©**.



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



After a short time, the device switches to sleep mode. Only the **@** symbol is shown on the display.



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 Φ for 5 seconds to switch the lubricator on or off.

5.2 Exit sleep mode

If only the $\widehat{\Theta}$ symbol is shown on the display, the device is in sleep mode between two donations. Press and hold $\mathfrak O$ for 5 seconds to exit sleep mode.

5.3 Key lock

The $\widehat{\mathbf{o}}$ 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 $\widehat{\mathbf{o}}$ for 3 seconds to deactivate the key lock. The $\widehat{\mathbf{o}}$ symbol disappears.

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