

# perma STAR CONTROL - Quick Start Guide

## 1. Predefine installation | Select lubricant, discharge period + connecting parts

**Examples: Bearing lubrication**

**Direct mounting**

**Remote mounting** → for lube-points with vibration, limited mounting space, high temperature

**Select a suitable lubricant for perma STAR LC unit**  
→ e. g. perma MULTI LC 150-2 (SF01)

**Select discharge period**  
→ e. g. with perma SELECT APP  
(refer to our product catalog for details)

**Possible mounting positions**



## 2. Prepare lube-point

**Clean lube-point**

**Remove grease fitting**

**Add sealant**  
(e. g. Loctite® 243™)

**Add reducer, support flange and tubes (if required)**

**For direct mounting:**  
Prefill lube-point and any connecting parts  
(use the same grease that is contained in the lubrication system)

**For remote mounting:**  
Prefill lube-point and any grease lines / connections  
(use the same grease that is contained in the lubrication system)

**Pressure check: Lube-point | all connecting parts**

## 3. Activation | Installation of lubrication system

**Assemble drive and LC**

**Tighten threaded ring hand tight until the white triangle is completely visible** (OK)

**Note activation / exchange date on label**  
01/2024  
07/2024

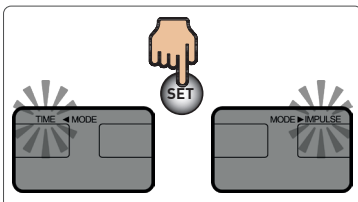
**Configuration can be found on the back page**

**Remove plug**

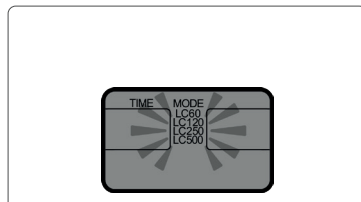
**Remove cap and screw the lubrication system into the lubrication point**

**Connect the cable to the drive by screwing it on**

## Configuration

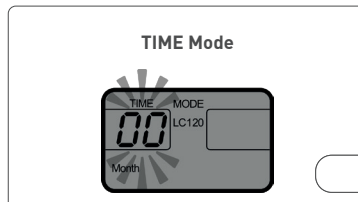


Hold down SET button for 5 s; Select desired mode („TIME“ & „IMPULSE“) by pressing the SET button



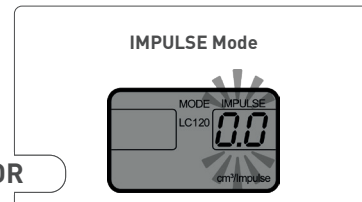
Set the LC size by pressing the SET button (60, 120, 250, 500 cm<sup>3</sup>)

**TIME Mode**



Set unit of time (1 x = months, 2 x = weeks) and discharge period by pressing the SET button

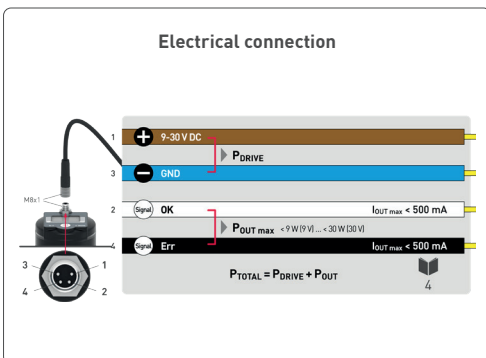
**IMPULSE Mode**



Set the discharge volume per impulse by pressing the SET button (0,1 - 9,5 cm<sup>3</sup>)


## Electrical connection

**Electrical connection**




1 + 9-30 V DC → PDRIVE  
2 - GND  
3 Signal OK → POUT max < 9 W (9 V) ... < 30 W (30 V) Iout max < 500 mA  
4 Signal Err → POUT max < 9 W (9 V) ... < 30 W (30 V) Iout max < 500 mA  
P<sub>TOTAL</sub> = P<sub>DRIVE</sub> + P<sub>OUT</sub>

**Signal output**



2	1	0	0	1
4	0	1	0	1
	OK/Δ	Err	Err	LC

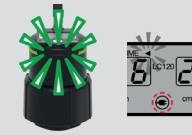
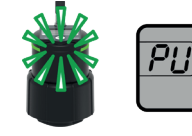

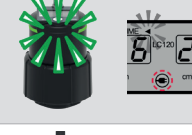


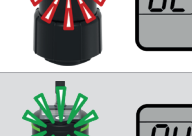
**Connection in parallel**



2	1	0	1
4	0	0	1
	OK/Δ	Err	Err/LC

**HINT** Wiring diagram for 4 perma STAR CONTROL  
www.perma-tec.com/star-control-parallel-wiring

## Quick Reference

Feature	Description	
<b>Power supply</b>	Power supply is indicated by the plug symbol in the display.	
<b>Purge</b>	Access the purge feature by holding down the SET button for 10 seconds. Release the button when "PU" appears and the purge will start automatically and show the "PU" LCD display. The green LED will flash. The purge cycle runs for 3 complete revolutions of the drive spindle to deliver around 6 cm <sup>3</sup> of grease. It can be stopped at any time by pushing the SET button once.	
<b>LED Light &amp; LCD Screen combinations</b> 	<b>Normal operation:</b> - Green LEDs flash every 8 seconds - LCD screen displays Time / Impulse setting & volume	
	<b>Run cycle (lubricant being delivered):</b> - Green LED's flash every second - LCD screen displays "ru"	
	<b>Empty Lubricant Cartridge (LC):</b> - Red LED's double flash every 3 seconds - LCD screen displays "LC"	
	<b>Blockage / Back Pressure Overload (OL):</b> - Red LED's double flash every 8 seconds - LCD screen displays "OL"	
	<b>Purge (PU):</b> - Green LED's flash every second - LCD screen displays "PU"	