Lubricant optimally metered as a function of operating hours or by impulses

In contrast to the perma STAR VARIO (with battery pack), the perma STAR CONTROL is supplied with external power via cable. In addition, the operating status can be transmitted to a PLC via this connection. The two integrated operating modes TIME and IMPULSE allow flexible use. In the TIME mode, lubricant dispensing is dependent on operating hours. In the IMPULSE mode, a precisely defined quantity is dispensed as soon as a voltage is applied. The perma STAR CONTROL consists of an electromechanical drive and an LC with 60, 120 or 250 cm³ of lubricant. The required mode is set on the drive. Lubrication is precise, temperature-independent and with up to 6 bar counter pressure.
The perma STAR CONTROL is used to lubricate roller and sliding bearings, sliding guides, open gears, gear racks, spindles, shaft seals and chains. Thanks to precise lubricant metering, perma STAR CONTROL is ideally suited for lubrication of electric motors with specified lubricant quantities. The system is protected against dust and water jets, subject to correct assembly of the individual parts (IP 65).

### Applications / machine elements

The perma STAR CONTROL is used to lubricate roller and sliding bearings, sliding guides, open gears, gear racks, spindles, shaft seals and chains. Thanks to precise lubricant metering, perma STAR CONTROL is ideally suited for lubrication of electric motors with specified lubricant quantities. The system is protected against dust and water jets, subject to correct assembly of the individual parts (IP 65).

### Technical data

- **Drive** – reusable
- **Electromechanical function** using external voltage: 9–30 V DC, Imax 0.5 A
- **Discharge period**
  - Time-controlled (TIME)
  - Impulse-controlled (IMPULSE)
- **Lubricant volume**
  - 60 cm³, 120 cm³ or 250 cm³
- **Operating temperature**
  - -20 °C to +60 °C
- **Pressure build-up**
  - 6 bar
- **Protection class**
  - IP 65
- **Standard & special lubricants**
  - Greases up to NLGI 2/oils
  - Oil-filled units require a separate oil retaining valve
  - Dimensions
    - LC 60: Ø 72 x 160 mm
    - LC 120: Ø 72 x 183 mm
    - LC 250: Ø 72 x 233 mm
  - Outside thread R1/4
  - For extreme operating conditions:
    - Protection cap STAR
      - 109520 for LC 60/120
      - 109519 for LC 250
    - Adapter cable STAR CONTROL
      - 109521
  - STAR CONTROL Drive Gen 2.0
    - 108432 5 m
    - 108431 10 m
  - perma STAR CONTROL Drive Gen 2.0
    - 108985
  - TIME mode
    - Setting: 1, 2, 3...12 months
    - Additional options on request
  - IMPULSE mode
    - Setting: 0.1–9.5 cm³ per impulse
    - Additional options on request
  - Support flange STAR Gen. 2.0
    - 109420
  - Protection cap STAR
    - 109520 for LC 60/120
    - 109519 for LC 250
  - Adapter cable STAR CONTROL
    - 109521

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### Product characteristics

- **LCD display with setting button**
  - Shows discharge settings, LC size and operating status
  - Setting:
    - Mode
    - LC size
    - Discharge quantity
    - PIN
- **Benefits**
  - Flexible handling thanks to simple TIME or IMPULSE mode setting; can be changed at any time
  - Fast, simple control of settings, the remaining impulses or operating hours until exchange
  - PIN request protects against possible tampering

- **Electromechanical drive with external power supply**
  - LED (red/green) visible all round signals functioning and any errors
- **6 bar pressure build-up**
  - Allows remote mounting
  - Counter pressure testing and manual additional discharge at the press of a button (purge)
- **Benefits**
  - Mounting up to 5 m outside of dangerous areas or at easily accessible locations increases workplace safety
  - Higher equipment availability, because exchange can take place during running operations
  - Lubrication point can be purged to clear blockages

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### Refer to page 71 for part numbers