









SKF.



<u>LINCOLN</u>

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Overview of control units

Manually operated pumps									
Product	Description ¹⁾	Voltage		Timer	Level monitoring	Pulse evalutation	Without housing	Stand alone	Page
		VAC	V DC						
IGZ	only for one pump	115–230	24	•	•	-	•	-	52
EXZT	for one pump and one pulse generator	115–230	24	•	•	•	•	-	52
E0T-2	only for one pump	-	12, 24	•	-	-	-	•	54
LMC 2	for one pump and one pulse generator	230	24	•	•	•	-	•	55
LMC 301	. six pulse generators (with extension 10 extra)	90–264	24	•	•	•	-	•	56
					•	•			



IGZ/EXZT



Product description

IGZ 51 and EXZT universal electronic control and monitoring devices are used in multi-line and progressive lubrication systems and are available in two voltage versions. Developed for stationary industrial applications, these devices may be installed in a switching cabinet or internally in a compact lubrication unit. They can be used as time-dependent or pulse-dependent controllers to initiate a lubrication cycle.

The EXZT devices control the pump running time and monitors simultaneously the strokes of the pulse generator or sensor of the metering device. All devices have custom-built functions integrated and can be set to meet system requirements.

Features and benefits

- Combined universal control and monitoring device
- · Easy installation by top hat rail mounting
- Adjustable operating modes
- Time operation or load-dependent, machine-stroke operation
- Low-level control and EPROM included

Applications

- Stationary industrial applications
- · Installation in switching cabinet of stationary general industry machines



Technical data

Function principle

Operating temperature Output voltage Connector for class Protection class **Dimensions**

and monitoring device 0 to +60 °C, +32 to 140 °F 24 V DC +10%/-15% IP 30, clamps IP 20 $70 \times 75 \times 110 \text{ mm}$ 2.7×3×4.3 in

universal electronic control

Version + 471

100 - 120 VAC; 200 - 240 VAC Input voltage 70 mA / 35 mA Input current rated Power input 8 W Frequency 50 - 60 Hz max. 6.3 A max. 5 A Fuse Switching current 24 V DC Input voltage sensors

Version + 472

Input voltage Input current rated Power input Frequency Switching current Input voltage sensors 20 – 24 V DC; 20 – 24 V AC 75 mA at max. fan-out of 250 mA 5W DC or 50 – 60 Hz

max. 6.3 A max. 5 A 24 V DC



NOTE

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publications available on SKF.com/lubrication:

1-1700-1 EN, 1-1700-2 EN, 951-180-001 EN



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Control unit

IGZ/EXZT

Order information						
Order illiormation						
Order number	Input voltage	Monitoring time adjustable	Level monitoring	Interval time extension	Lubricant levels early warning, contact	Pulse monitoring
IG351-10-E + 471	120, 230 V AC	•	NO 3)	•	_	_
IG351-10-E + 472	24 V DC	•	NO 3)	•	_	-
EXZT 2A03-E + 471	120, 230 V AC	•	NC 4)	•	•	•
EXZT 2A03-E + 472	24 V DC	•	NC 4)	•	•	•
1) Only for one nump						
Only for one pump For one pump and one pulse transmitter						
3) NO = contact normally open						
4) NC = contact normally closed						



Control unit

EOT-2



Product description

The EOT-2 controller is designed to control lubrication pumps during interval operation in multi-line systems. Rotary switches on the printed circuit board may be used to adjust lubrication time in seconds or minutes and pause time in minutes or hours. The EOT-2 is suitable for retrofit installation and often is used when a lubrication pump has no integrated control unit. Additional lubrication cycles can be triggered via a pushbutton.

Features and benefits

- Easy-to-use controller for installation, indoor and outdoor
- Suitable for retrofit, easy time setting and function control

Applications

- · Lubrication pumps without integrated controller
- Agricultural machinery, chain lubrication systems
- Simple lubrication systems in machines
- In connection with motor relay assembly; also preferred for three-phase, multi-line pump units



Technical data

Function principle control and monitoring device −25 to +70 °C, −13 to +158 °F 12 or 24 V DC Operating temperature Supply voltage Current draw max. ≤ 7 A Outputs transistor / N.O. Pause time min. 4 min max. 15 h Running time min. 8 sec max. 30 min Standard

Protection class

122×118×56 mm, 4.80×4.65×2.00 in **Dimensions**

Mounting position anv

Order information

Urder number	Description
236-10850-7 236-10850-8 236-10850-9 236-10980-6	EOT-2 controller with motor starter 0,4–0,6 A EOT-2 controller with motor starter 0,6–1,0 A EOT-2 controller with motor starter 1,0–1,6 A EOT-2 controller with motor starter 2,4–4,0 A
664-34135-7	EOT-2 controller, for one pump only



NOTE

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publication available on SKF.com/lubrication:

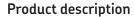
16966 EN, 951-170-232



Control unit

LMC2





The LMC 2 is a controller for the electronic management and monitoring of lubrication systems. It combines the advantages of a specially developed printed circuit board (PCB) and a PLC in an economical, compact unit. For progressive systems, it controls the pump unit and the metering devices.

Features and benefits

- Integrated, flexible lubrication programs
- 8 inputs / 5 outputs; suitable for complex lubrication systems
- Time- or cycle-dependent control of lubrication intervals
- Can be interfaced with common field bus systems

Applications

- General lubrication sytems with a pump and pulse generator
- Railway
- Food and beverage
- ChaLMCin lubrication systems like Lincoln Cobra and PMA
- Multi-line as well as dual-line, single-line and progressive systems



Technical data

Function principle Operating temperature Supply voltage Inputs Outputs

Operating voltage

Standard

Protection class Dimensions

IP 54 $200 \times 120 \times 90$ mm, 7.9 × 4.7 × 3.5 in

any

control and monitoring device

−10 to +70 °C, −14 to +158 °F 12 or 24 V DC

max. 8 digital inputs

depending on model: 230 V AC, 24 V DC (± 10%)

4 relay outputs,

1 electronic

Mounting position

Order information

Order number Description

236-10567-6 LMC 2; 230 AC (230 VAC) 236-10567-5 LMC 2; 24 DC (24 V DC)

For use with electrically operated 3-phase pump must order motor starter separately.

NOTE

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publication available on

SKF.com/lubrication:

14004 EN

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Control unit

LMC301





The LMC 301 is a compact, modularly expandable control and monitoring device. It is equipped with an LCD display and six functional keys for programming, parameter setting and signalization. The user is guided through the setup menu. Additionally, there is offered a simple-to-use PC software for parameter setting and diagnostics.

Features and benefits

- Integrated, flexible lubrication programs
- Main device with 10 digital inputs, for 3 lubrication pumps and max. 6 pulse transmitters
- Up to 7 slave/extension modules can be added with additional inputs for max. 10 pulse transmitters
- Three lubrication pumps can be controlled and monitored

Applications

- General and heavy industry
- Mining stationary and mobile excavators
- Multi-, dual-, single-line and progressive systems



Technical data

Function principle Control and monitoring device VAC: -10 to + 50 °C; +14 to 122 °F Operating temperature VDC: -40 to +70°C; -40 to 158 °F Inputs 10 count, short-circuit proof, 2 with analog 8 count, relay outputs NO-contact Outputs 8A, 2 of which up to 15 A Operating voltage depending in model

vertical

100-240 VAC, 24 VDC ±20% CE; UL; CSA Standard IP 65 Protection class **Dimensions** 270×170×90 mm $10.7 \times 6.7 \times 3.5$ in

Order information

Order number

Mounting position

086500 LMC 301; 24 V DC, master LMC 301; 100-240 V AC, master LMC 301; 24 V DC, I/O board, slave LMC 301; 100-240 AC, I/O board, slave 086501 086502 086503

Designation



NOTE

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publications available on SKF.com/lubrication:

15967 EN, 951-150-029 EN

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Control units

LMC301 - Accessories



LMC 301 motor relay assembly			
Description			
with motor starter 0,4–0,6 A			
with motor starter 0,6–1,0 A with motor starter 1,0–1,6 A with motor starter 2.4–4.0 A			

LMC 301 housing				
Order number	Description			
086504 086505	door housing, complete cable USB			

Order numbers			
Order number	Description		
086506 086507	PG-M20 Cable gland kit, IP 65 Multiple cable gasket set (3 x) Cable gasket set (3 x)		
3515-10-6020 3515-10-6620	Cable glands PG-M20; complete, with cap nut, cable gasket set (2), screw plug cartridge (3) Cable gasket set (2); 2-wire, \emptyset 0.24 in Cable gasket set (2); 4-wire, \emptyset 0.2 in		
3515-10-7620 3515-10-6220 3515-10-6320	Blind plug Gasket Counter nut		
3515-07-6120 3515-10-2021 3515-07-2022 179-990-486 236-11066-1	Conduit glands, IP 65, with flexible metal tube (FMC), UL approved Conduit glands AMG-M 20×1.5 ; UL $514B$ Counter nut M 20×1.5 Protection hose, liquid-proof protective; UL 360 (sold by the metre, when ordering specify the required length) Fuse, blade-type, FK1 $3A$ ($32V$) according to ISO $8820-3$ Battery, $3V$ lithium button cell, model CR3032		
www.skf.com/LMC301	LMC 301 software, free download		
1) The installation of the cable glands and cable sets to be provided and done by the customer. The customer is responsible for proper installation.			

