

# SKF LAGM 1000E



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## EC Declaration of conformity

We,  
SKF Maintenance Products  
Kelvinbaan 16  
3439 MT Nieuwegein  
The Netherlands

herewith declare that the following product:

**SKF Grease Meter  
LAGM 1000E**

has been designed and manufactured in accordance with:  
EMC DIRECTIVE 2004/108/EC as outlined in the harmonized norm for  
EN 61000-6-2:2005  
EN 61000-6-4:2007  
EN 61000-6-3:2007

EUROPEAN ROHS DIRECTIVE 2011/65/EU

Nieuwegein, The Netherlands,  
January 2013



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## 1. Application

The SKF Grease Meter LAGM 1000E accurately measures the amount of grease applied to a bearing or other lubrication point. The grease meter can be connected to grease pumps that are air driven, electrically driven or hand operated.

## 2. Description

The grease meter measures the grease quantity that passes through the meter. The grease quantity dispensed can be displayed as cm<sup>3</sup>, gram, oz or fl oz (US). The grease meter is easily calibrated, and the display is equipped with a backlight for use in dark environments.

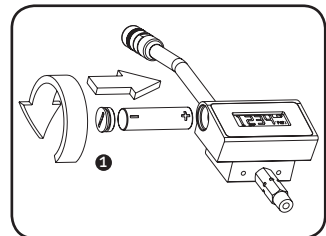
## 3. Technical data

Suitable grease consistency	NLGI 0 - NLGI 3
Maximum pressure	70 MPa (10 000 psi)
Thread connection	M10 × 1
Maximum flow	1 000 cm <sup>3</sup> /min (34 us fl oz/min)
Accuracy	± 3% up to 30 MPa (4 300 psi) ± 5% from 30 to 70 MPa (4 300 - 10 000 psi)
Weight	0,3 kg (0.66 lb)
Battery type	1 × AA (1,5 V)
Battery life	50 hours with backlight 2 000 hours without backlight 10 000 hours without displaying (in stand-by mode, see 6.5)
Low power indication	LOBAT
Operating conditions	-20 °C to +54 °C (-4°F to +130 °F) IP level 67

## 4. Installing or replacing battery

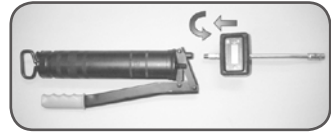
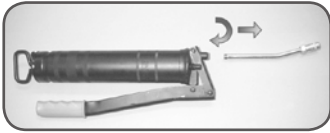
Carefully remove the rubber protective sleeve.

Check polarity when inserting battery. Dispose of the batteries in accordance with local regulations.




## 5. Assembly instructions

Replace the lubrication pipe or high-pressure hose on your grease pump or grease gun with the grease meter assembly. If wanted the extension pipe with nozzle can be replaced by the extension hose (1077601).




## 6. How to use

### Mobile installation with a grease gun or pump


There are two ways to start the Grease Meter. Either use it (pump grease through it) or press the  button to continue with the previous measurement:

The display lights up:



To reset the Grease Meter after each dispensing press the  button. (The RESET text shows that in this menu the left button has the reset function.)

An alternative way to reset the meter is to wait until the auto shut off time (see chapter 6.5) has elapsed and restart the meter by pumping grease through it.


To light up the display when working in dark environments press the  button. The light will automatically switch off 5 seconds after the grease flow has stopped.

The battery symbol indicates how much power is left in the batteries.

### Permanent installation (in conjunction with an automatic lubrication systems)

Activate this mode by setting the auto shut off time to "stby" (see chapter 6.5).

In this mode the display don't activate when it detects grease flow. The Grease Meter measures the amount passing through it.

Use the  button to turn the display on or off (>2 seconds to turn it off).

When this mode is active there is a "STBY" in the lower right corner on the display.



This mode is for permanent installation on a pipe to check amount passing through the pipe. This mode is very battery efficient. The batteries can last several years.

## 6.1 Menu functionality

To enter the menu press the  and  buttons at the same time.

The first option in the menu is the sub total counter. Press ENTER (left button) to display this value and reset it if required or press NEXT (right button) for the following option in the menu.



The second option in the menu is total counter. Press ENTER (left button) to display this value and reset it if required or press NEXT (right button) for the following option in the menu.



The third option in the menu is for calibration of the grease meter. Press ENTER (left button) to display the calibration value and adjust it if required or press NEXT (right button) for the following option in the menu.



The fourth option in the menu is for displayed units. Press ENTER (left button) to display or change the used unit or press NEXT (right button) for the following option in the menu.





The fifth option in the menu is the auto shut off time. Press ENTER (left button) to display or change the auto shut off time or NEXT (right button) for the following option in the menu.



The last option in the menu is to set the light level of backlight. Press ENTER (left button) to display or change the light level of backlight or NEXT (right button) for the first option in the menu.



It is always possible to exit the menus and return to normal measuring state by pressing the  and  buttons at the same time.

## 6.2 Sub total and total counter

The grease meter is equipped with a SUB TOTAL and TOTAL counter that can be reset. Go to the counter option in the menu (see 6.1) to display this value and possibly reset it.

The display shows:



Press ENTER (the left button). The display shows:



This shows you the SUB TOTAL amount of grease that has passed the meter since the last reset.

To reset the sub total counter, press ZERO (right button). To exit the menu press EXIT (left button).

The TOTAL counter is set in the same manner.

## 6.3 Calibration of the meter

The grease meter can be calibrated for different grease types, characteristics and densities.

### 6.3.1 Calculate the correction factor

Correction factor = real quantity / shown quantity

Example:

500 grams of grease have been dispensed.  
The grease meter shows 485 GRAM.

Correction factor =  $500 / 485 = 1,03$

### 6.3.2 Calculate the calibration factor

The new calibration factor = the old calibration factor x the correction factor.

Example:

The old calibration factor is 700.  
The correction factor is calculated as 1,03.  
The new calibration factor =  $700 \times 1,03 = 721$

### 6.3.3 Change the calibration factor

Go to the calibration option in the menu (see 6.1) to display and change the calibration factor.



Press ENTER (left button). The display shows the current calibration factor:



The highlighted digit can be stepped up by pressing STEP (right button):



To highlight the next digit, press ENTER (left button):



Continue to press STEP and ENTER to set the correct calibration factor.



When the last digit has been accepted by pressing ENTER, the display shows:



Press ENTER (left button) to accept and save the new calibration or press CANCEL (right button) to cancel the changes and return to the old calibration factor.



## 6.4 Change the displayed units

The grease meter can show the grease amount in four different units  $\text{cm}^3$ , gram, oz, and fl oz (US).

Go to the unit option in the menu (see 6.1) to display and change the used unit.



Press ENTER (left button), the display shows:



Press STEP (right button) to step to next unit:



Press ENTER (left button) to accept and save the new unit.

## 6.5 Change auto shut off time

The grease meter can set to automatically shut off after 2 seconds, 4 seconds, 1 minute, 4 minutes or 8 minutes or work in STANDBY mode.

Press ENTER (left button): the display will show:



Press STEP (right button) to move forward to the next time or STANDBY mode.



Press ENTER (left button) to accept and save the new time.



## 6.6 Change backlight

The backlight of the grease meter can be set to low or how power setting.

Press ENTER (left button): the display will show:



Press ENTER (left button) to choose low power setting or press STEP (right button) to change to:



Press ENTER (left button) to choose high power setting or press STEP (right button) to go back to previous choice.





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