

# CONTROL UNIT LUBRICATION MONITORING

**CCMon10**  
**Art. No. 907434**

## USER'S MANUAL



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## 1. DESCRIPTION

The CCMon10 control unit monitors the operation of the central lubrication system. Up to 10 flow meters are connected to the control unit for monitoring fat amounts.

## FEATURES

- Adjustable lubrication amount, lubrication interval and alarm limits.
- All settings protected with passwords.
- Control via the monitored machine.
- Output for operation indication.
- Output for alarms, alarms in case of too low or too high lubricant flow.
- Possibility to choose between NO and NC machine interlocking connector.

## DEFINITIONS

Lubrication interval	Time between the beginning of two lubrications.
Channel separately.	Part of lubrication systems that can be machine-interlocked separately.

## 2. DATA

Protection class	IP 65
Dimension	400x400x200 (WxHxD)
Weight	14 kg
Supply voltage	100-240 VAC 2.6 A 50-60 Hz

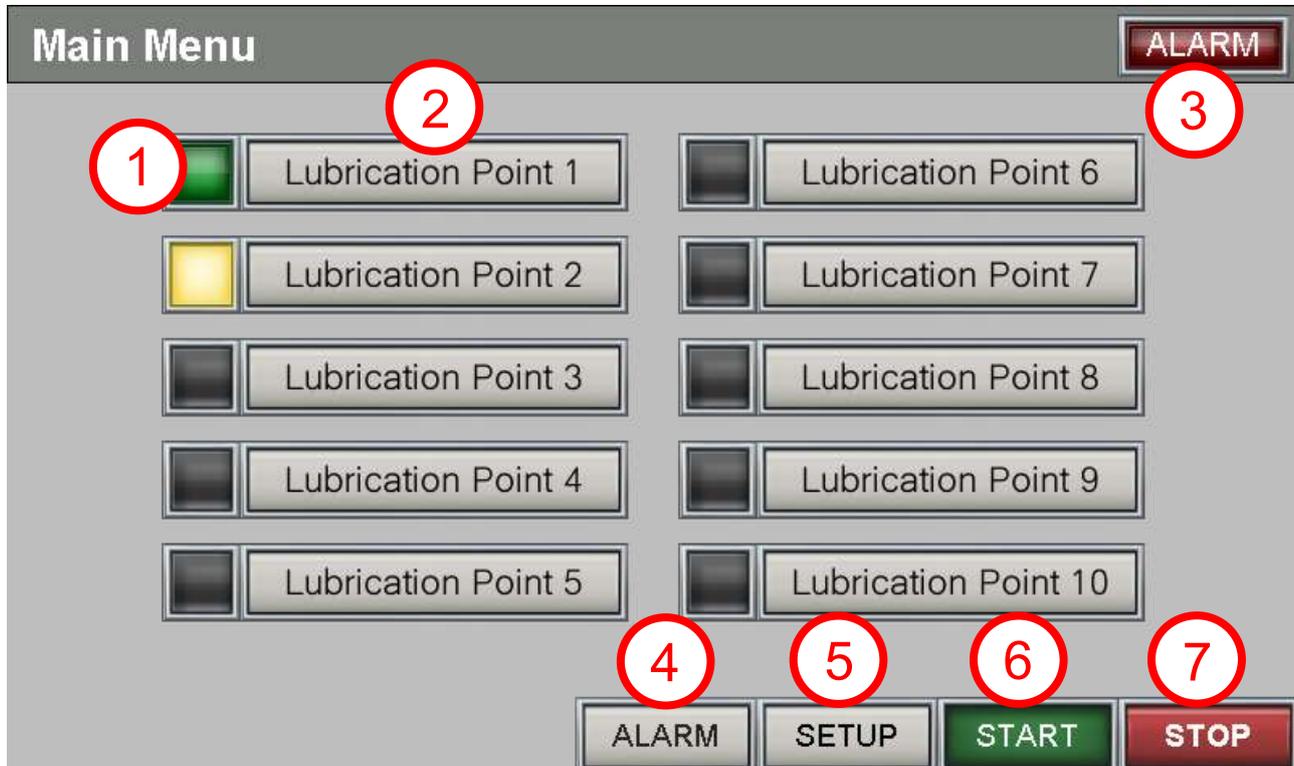
Outputs:	Maximum load	80 VA resistive load 100 W Inductive load
	Alarm output	Potential-free switching contact
	Operation indication	Potential-free switching contact
	Voltage	Built-in power source 24V 5A

Settings range	Lubrication interval	1 - 99999 minutes
	Amount of lubrication	1 - 99999 cm <sup>3</sup>

### 3. OPERATION

#### MAIN MENU

The main menu shows an overview of all 10 lubrication points, as well as the status of each lubrication point.

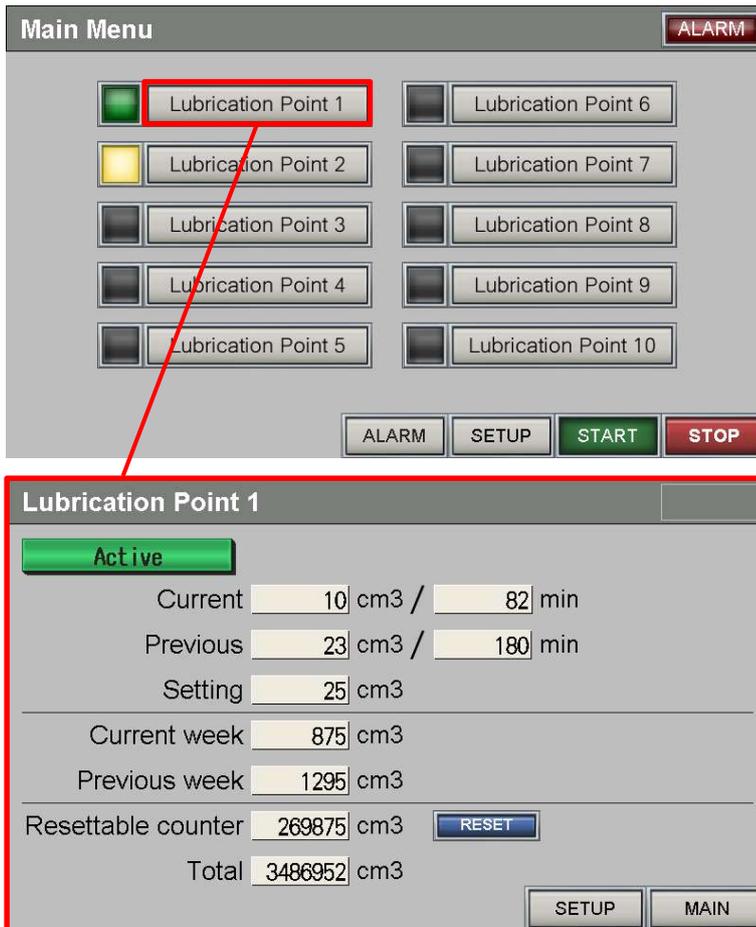


1. The status of the lubrication point is indicated by the box to the left of each lubrication point.



2. Button to access 'Lubrication Point 1' information
3. Indication for alarm. In case of alarm, the red icon  in the upper-right corner flashes.
4. Button to access the alarm list
5. Button to access settings
6. Button to start control unit
7. Stop button to stop control unit

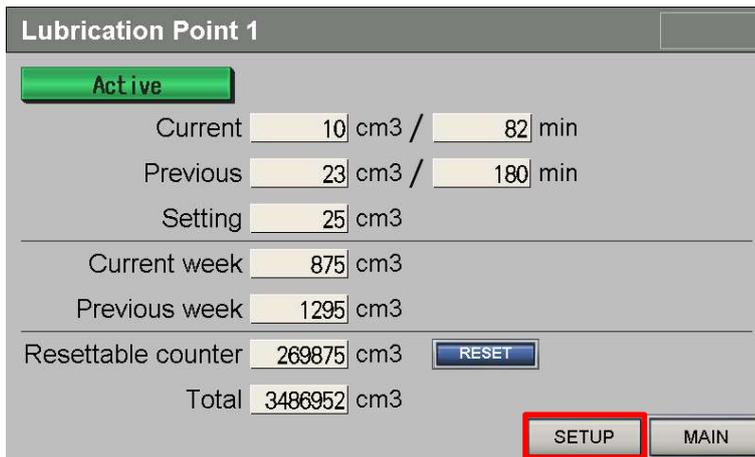
## PREFERENCES



Information for each lubrication point is displayed at the push of a button for each lubrication point.

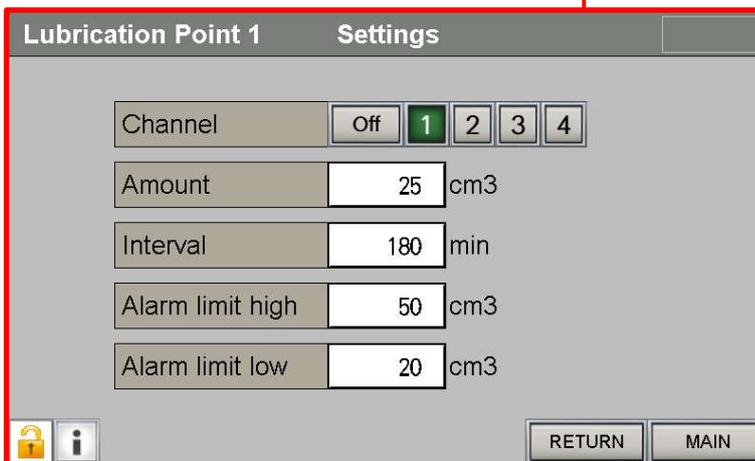
The image above shows an example where:

- 10 cm<sup>3</sup> is the amount of lubrication that has so far received 'Lubrication point 1' during 82 minutes elapsed of the current lubrication interval.
- 23 cm<sup>3</sup> is the measured amount of lubrication in the previous interval (180 min).
- 25 cm<sup>3</sup> is the set value.
- 875 cm<sup>3</sup> has so far been added 'Lubrication Point 1' this week.
- 1295 cm<sup>3</sup> was added 'Lubrication point 1' the previous week.
- 269875 cm<sup>3</sup> has been added 'Lubrication point 1' since the reset counter was reset.
- 3486952 cm<sup>3</sup> has been added 'Lubrication point 1' since the system was put into operation.



To change the set values for the selected lubrication point, press the button .

To prevent unauthorized persons from changing settings and configuration, these are protected with a password. If password is required to make changes, the icon  is in the lower left corner and you cannot change any settings. Press  to enter your username and password. The operator name is displayed at the press of a button,  and upon delivery the username is 1 and the password is 1234.



If the settings unlock has been performed correctly, the icon  has changed to .

The image above shows examples of settings for Lubrication Point 1 where:

- The specified channel can be set for the selected lubrication point. There are four channels which the lubrication points can be divided between, for example, different areas/machines. To indicate which channel the lubrication point should belong to, press a number . Lubrication point 1 belongs to channel 1 in this example and this is indicated by the green marked number 1. If the lubrication point is desired to be out of service, press .
- The amount is set to 25 cm<sup>3</sup> is the target value for the desired lubrication amount.
- Interval is the time that the amount should be dosed within.
- Alarm limit upper indicates the amount of lubrication that must be exceeded to receive an alarm.
- Alarm limit lower indicates the amount of lubrication that must be below to obtain an alarm.
- Press  to return to the previous page. Press  to return to the main menu.



To change settings press the button .

To prevent unauthorized persons from changing settings and configuration, these are protected with a password. If password is required to make changes, the icon  is in the lower left corner and you cannot change any settings. Press  to enter your username and password. The operator name is displayed at the press of a button,  and upon delivery the username is 1 and the password is 1234.



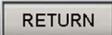
If the settings unlock has been performed correctly, the icon  has changed to .

The image above shows settings:

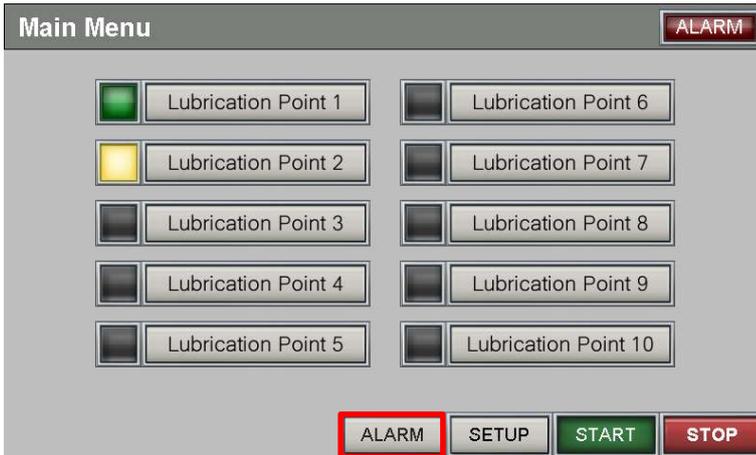
- At the top, all counters can be reset by pressing .
- During Machine Stop, the four different channels for the lubrication points will stop counting lubrication amounts.

It is possible to select if the machine input contact shall be open or closed at machine stop.

See the previous page to set which channel a lubrication point should belong to

- The interface language can be change by clicking on a flag that correspond to the native language spoken in that country.
- Press  to return to the previous page (main menu).

## ALARM



To see information about alarms, press the button .



At the top of the list, you'll see the latest alarm. First what time, then what lubrication point and last what type of alarm.

In the example to the left, it is lubrication point 1 (SMP 1) that has alarmed due to too high flow, meaning the upper alarm limit has been exceeded.

The image above shows the alarm menu where:

- The buttons on the right orient the selected row in the list.
- The button  deletes the alarm as it is below the selected row.
- The button  removes all alarms in the list.
- The button  acknowledges the alarm so it is not visible from the main menu.
- The button  displays a list of previous alarms that have been deleted.
- Press  or  to return to the main menu.