



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	Part of lubrication systems that can be machine-interlocked
separately.	

2. DATA

Protection class Dimension Weight Supply voltage	IP 65 400x400x200 (WxHxD) 14 kg 100-240 VAC 2.6 A 50-60 Hz	
Outputs:	Maximum load Alarm output Operation indication Voltage	80 VA resistive load 100 W Inductive load Potential-free switching contact Potential-free switching contact Built-in power source 24V 5A
Settings range	Lubrication interval Amount of lubricatior	1 - 99999 minutes 11 - 99999 cm³

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.

Active	Machine stop	Not running

- 2. Button to access 'Lubrication Point 1' information
- 3. Indication for alarm. In case of alarm, the red icon **ALARM** 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

Main Menu	ALARM
Lubrication Point 1	t 6
Lubrication Point 2 Lubrication Point	t 7
Lubrication Point 3	t 8
Lubrication Point 4	t 9
Lubrication Point 5	10
ALARM SETUP STAR	TSTOP
Lubrication Point 1	
Active	
Current10 cm3 /82 min	
Previous23 cm3 /180 min	
Setting25 cm3	
Current week875 cm3	
Previous week1295 cm3	
Resettable counter 269875 cm3 RESET	
Total <u>3486952</u> cm3	
SETUP	MAIN

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 cm³ is the amount of lubrication that has so far received 'Lubrication point 1' during 82 minutes elapsed of the current lubrication interval.
- 23 cm³ is the measured amount of lubrication in the previous interval (180 min).
- 25 cm³ is the set value.
- 875 cm³ has so far been added 'Lubrication Point 1' this week.
- 1295 cm³ was added 'Lubrication point 1' the previous week.
- 269875 cm³ has been added 'Lubrication point 1 since the reset counter was reset.
- 3486952 cm³ has been added 'Lubrication point 1' since the system was put into operation.

Lubrication Point 1	
Active	
Current	10 cm3 /82 min
Previous	23 cm3 /180 min
Setting	25 cm3
Current week 87	75 cm3
Previous week12	95 cm3
Resettable counter 26987	75 cm3 RESET
Total 348695	52 cm3
	SETUP MAIN
Lubrication Point 1	Settings
Channel	Off 1 2 3 4
Amount	25 cm3
Interval	180 min
Alarm limit high	50 cm3
Alarm limit low	20 cm3
	RETURN

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

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 is to enter your username and password. The operator name is displayed at the press of a button, i and upon delivery the username is 1 and the password is 1234.

If the settings unlock has been performed correctly, the icon $\frac{1}{2}$ has changed to $\frac{1}{2}$.

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 1234. 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 off.
- The amount is set to 25 cm³ 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 RETURN to return to the previous page. Press MAIN to return to the main menu.

Main Menu	ALARM
Lubrication Point 1	6
Lubrication Point 2	7
Lubrication Point 3	8
Lubrication Point 4	9
Lubrication Point 5	10
ALARM SETUP START	STOP
Settings	
Reset all counters COMM	ЛІТ
Machine stop	
Channel 1 NO NO: Open contact = sto NC: Closed contact = st	p top
Channel 2 NO	
Channel 3 NC	
Channel 4 NC	
Language	

To change settings press the button **SETUP**.

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 is to enter your username and password. The operator name is displayed at the press of a button, i and upon delivery the username is 1 and the password is 1234.

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

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 **RETURN** to return to the previous page (main menu).

ALARM

Main Menu	To see information about alarms,
Lubrication Point 1 Lubrication Point 6	press the button .
Lubrication Point 2	
Lubrication Point 3 Lubrication Point 8	
Lubrication Point 4 Lubrication Point 9	
Lubrication Point 5	
ALARM SETUP START STOP	
Advanced User Alarm History 23.07.19 20:42	At the top of the list, you'll see the latest alarm. First what time, then
Occured Message Restored Checked 23/07/19 20:27 SMP1 Hogt Flöde Page Bow Up Row Up Row Up	what lubrication point and last what type of alarm.
	In the example to the left, it is
	alarmed due to too high flow, meaning
Row Down Page Down	the upper alarm limit has been exceeded
Delete Al 1 Reset	
Alarm History RETURN MAIN	

The image above shows the alarm menu where:

- The buttons on the right orient the selected row in the list.
- The button Delete 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 RETURN or MAIN to return to the main menu.