Universal Control Unit UC-2C

Quick Operation Guide

UC-2C 润滑控制器

简要操作说明

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1. Installation

1.1 Installation dimensions



PANEL CUT-OUT diagram



Outline dimension of control board



1.2 Electrical connection

- J0 GND GND (PE)
- J1 LL Level switch
- J2 MK Signal input
- J3 V+ DC +24V Power output (Max 50mA)
- J4 SR Status relay output
- **J5 PUMP_A** Pump output_A
- J6 PUMP_B Pump output_B
- **J7 AC_N** Neutral wire (90~250V 45-65Hz)
- J8 AC_L Live wire
- J9 PANEL To operation panel
- J10 TEST Interface for test

Electrical connection diagram



2. Operation guide and programming

If PAUSE control mode is set as TIMER, the unit of measurement of the value displayed on LED monitor is by hour. If the PAUSE control mode is set as COUNTER, then the unit of measurement of the value is times. LUBE control value is fixed as counting times.

2.1 Operation guide

LED pilot lights indicate current operation status and control mode. LED monitor displays the remaining value of the current status.

Example : System is now in PAUSE phase, Timer mode, and remaining value is 6.2 h.

If PAUSE is set as counter mode, LED displays operation data into 2 segments. It first shows the 3 high-order digits of the value.

Example: H123, means the high-order digits of the value is 123.

About 1s later, LED monitor then displays 3 low-order digits of the value.

Example: L456, means the 3 low-order digits is 456

Compose the two digital segments to get the PAUSE value 123456.

If system is in LUBE phase, the condition of control panel will be shown like the right figure.

This figure shows the remaining LUBE value is 8 impulses. And LUBE mode is fixed in COUNTER mode.









2.2 PAUSE setting

1.Press longer than 2 seconds, LED monitor shows "PAU",



2. Press key **1**, the light PAUSE on, meanwhile, light TIMER or COUNTER flash to show preset control mode for PAUSE.

Example: Light COUNTER flash means PAUSE is now in COUNTER control mode.

3. Use key to change PAUSE control mode, then the relative light TIMER or COUNTER will flash accordingly.

Example: Change PAUSE control mode to TIMER mode.

4. Press to confirm the new control mode, If control mode is TIMER, then LED shows time.

Example: 0.1h (factory setting) If control mode is COUNTER, then skip to step 8.



5. User may use keys **1 C** to change PAUSE value. **Example:** change to 72h.







6. Press key to confirm the new programmed parameters. LED displays 'End.' means setting for PAUSE finish.



7. Press key to exit setting operation and goes back to operation status display mode. Programmed parameters are saved permanently till next change via programming.



8. If PAUSE mode is counter, LED monitor will display the 3 high-order digits of the value.

Example: H000



9. Use key 🚹 🚺 to change the value.

Example: Change to H123



10. Press key **b** to confirm the change of the 3 high-order digits, then LED monitor displays 3 low-order digits.

Example: L001



11. Use key **11.** Use key **11.** to modify the 3 low-order digits of the PAUSE counter value.

Example: Change to L456

Compose the 2 digital segments, there comes the value 123456.



12. Press key **to** confirm the new parameters. LED monitor displays 'End.', this means the setting is finish.



13. Press key to exit setting operation and goes back to operation status display mode. Programmed parameters are saved permanently till next change via programming.



2.3 LUBE setting



6. Press key to end the setting operation and get back to display mode. The newly set parameters will be saved permanently until next change via setting.



2.4 Pitch ratio setting



6. Press key to end the setting operation and get back to display mode. The newly set parameters will be saved permanently until next change via setting.



3. Faults

When control unit detects system faults, light "FAULT" on the panel will be flashing quickly. Meanwhile, the fault indicating relay closes and outputs AC power to remind user the lubrication system is in fault. Control unit stops normal operation and wait for user to handle the faults.

3.1 Level monitoring

Controller can monitor the level situation of the reservoir via level switch. When level is lower than a certain level, level switch will open. Once the controller detects the level switch opens, it gives alarm immediately and all LUBE channels stop at the same time.

Level monitoring function is activated all the time. It cannot be deactivated via setting. If user DOES NOT need this level monitoring function, they can short circuit J1 and J3 terminal on the control board.

3.2 Faults display

Whenever controller detects fault, LED monitor will display corresponding error code and meanwhile light FAULT on the panel will flash.

When level error occurs, the code displayed is LOL.



3.3 Clear fault messages

After the error being handled, briefly press key on the panel to clear the error message, exit fault state and gets back to normal lubrication circle.