

Universal Monitoring Controller UC-5u is a new type controller designed for controlling and monitoring of MOQ Lubrication systems. It also can be used in brushing lubrication control or other similar solenoid pump control applications.

UC-5u and UC-5 family controllers share the same housing and hardware.



### Powerful function

- ◆ Use advanced high-speed processor, can quickly control oil air A and B two solenoid valves, makes oil and air mixing well to form a airflow that contents minimum quantity of oil to lubricate and cool down those lubrication points.
- ◆ Timer control mode for LUBE and PAUSE. Programmable pulse time and interval time to precisely control the quantity of the fine oil mist in airflow.
- ◆ Can accept external signal control and output fault signals. It is easy to realize interlock control with system host PLC.
- ◆ Compressed air pressure and oil-level monitoring function ensures lubrication system reliable for long-term auto-lubricating.
- ◆ Power cut-off protection. Controller auto memories lubrication parameters when power cut-off happens to the system, and continues carry out operation from the point of power-off.

### Convenient and easy operation

- ◆ Large, bright LCD monitor interface, visually displays rich information in text form. Chinese and English versions are available.
- ◆ LED signal lights indicate system-working status clearly and there is also remote fault relay output monitoring signals at the same time.

- ◆ Film keypad operation. Comfortable hand feeling. Easy and quick parameter setting improved operational efficiency.
- ◆ Integrated with all functions required for lubrication control. It can implement lubrication control by just connect sensors and electromagnetic pumps, access to power, and simply parameter setting.
- ◆ Controller is designed with some auxiliary functions like oil-discharge. Easy for installation and trial run.

### **Good adaptivity to complicated application environment**

- ◆ Controller can work under a complicated power supply condition. Controller can properly work in a wide voltage range. The surge, sink, brief interruption and superposed strong interference of the power supply will not negative influence on the controller. Therefore, it is especially suitable for industrial sites.
- ◆ Excellent acclimatization. Can work in a wide temperature range from -20°C to 50°C. Film panel protects UC-5u from humidity and dust. Its protection grade reaches IP65.
- ◆ UC-5u is a product that is sturdy and durable. Vibration, dust and humidity of industrial sites has no adverse effect on it

### **High reliability**

- ◆ The design complies with industrial application standard. It can steadily work at high load.
- ◆ The controller is internal designed with operation monitoring system. When an abnormal situation occurs, the system can automatically handle it, which greatly improves the reliability.
- ◆ Control modes and parameters are stored in EEPROM. It does not need backup power support.
- ◆ Main electronic components are all Industrial level and high-temperature ageing and stability treated; ensure the reliability of the complete control unit.
- ◆ SMT manufacturing technique with reinforcement treatment enables controller can work stably even under severe vibration condition.

## Technical Specification

Nominal voltage	85V-264V , 45-65Hz (available to global voltage)
Protection grade	IP65
Channel's Max. output	>500W
Channel A's pulse time	0.05 s~0.99 s
Channel A's pulse interval	0~1.99 s
LUBE time	1 s~99 min 59 s
PAUSE time	0~9999 h 59 min
External input signal	10V ~36V DC , input equivalent resistance 5.1k
Fault relay output	250V AC , 5A Max , N. C.
Working temperature	-25°C~+55°C
Fuse specification	250V 0.5A

- \* For technical improvement reason, we may change our product's Technical Specification at any time without prior notice.

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