

Universal Monitoring Controller UC-5 is a new type controller designed for controlling and monitoring of projection Lubrication systems. Application may like lubrication for conveyor and escalator etc.



## Powerful function

- ◆ Use high-speed processor to collect two chains induced signals at the same time and control the two chains separately. Controller UC-5 can carry out lube control task easily.
- ◆ Two lube channels design. UC-5 can control two lube channels at the same time. It is very suitable for controlling complicated chain (projection) lubrication system.
- ◆ Can accept external signal control and outputs failure signals, it is easy to achieve interconnected control with the host PLC of the conveyor.
- ◆ Fine adjustment function can fine-tune projection time to meet the needs of installation.
- ◆ Programmable sensor Monitoring time suit different lubrication system's requirements.
- ◆ Compressed air pressure and oil-level monitoring function ensures lubrication system reliable for long-term auto-lubricating.
- ◆ Power cut-off protection. Uc-5 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.
- ◆ 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.
- ◆ UC-5 is designed with some auxiliary functions like oil-discharge. Easy for installation

and trial run.

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

- ◆ UC-5 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 UC-5. 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-5 from humidity and dust. Its protection grade reaches IP65.
- ◆ UC-5 is a product that is sturdy and durable. Vibration and noise of industrial sites has no adverse effect on it

### **High reliability**

- ◆ UC-5's design complies with industrial application standard. It can steadily work at high load.
- ◆ The controller is internal designed with operation monitoring system. When an exception 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.  
Some controllers' EEPROM will lose memory function after being used for a period of time. This causes some faults that are not easy to be discovered.. UC-5 is especially improved EEPROM parameters correction function, which guarantees the high reliability of lubrication control.
- ◆ 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 UC-1 can work stably even under severe vibration condition.

## Technical Specification of Universal Monitoring Controller UC-5

Nominal voltage	85V-264V , 45-65Hz (available to global voltage)
Protection grade	IP65
Max. output of solenoid pump	>3A
Lube channel quantity	2 channels
Operation temperature	-20℃ ~ 50℃
Installation dimensions L×W×H	200mm×120mm×90mm
CE certified regulation	2004/108/EC
Lubrication impulses setting range	1 ~ 999 999
Pause time setting range	0min ~ 9999h 59min 59sec
Pause counting range	1 ~ 99 999 999
Pitch jump range	1:1 ~ 999:1
Pump time setting range	0.1 ~ 9.99sec
Oil projection adjustment	0 ~ 9.99sec
Signal monitoring time range	0 ~ 99 min
Fault relay output	250V , 5A MAX

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

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