

Universal Monitoring Controller UC-5N is a new type controller designed for controlling and monitoring of central Lubrication systems. It is widely used in chain lubrication systems like conveyor and escalator etc. It is the most powerful chain lubrication system controller. UC-5N is designed with network control function based on controller UC-5. It supports international standard MODBUS protocol.



Powerful function

- ◆ Use high-speed processor to collect two chains induced signals at the same time and control the two chains separately. Can carry out lube control task easily.
- ◆ Support international standard industry control protocol MODBUS, can realize network control with mainstream of control system.
- ◆ Two lube channels design. 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. 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.
- ◆ 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 UC-5N. Therefore, it is especially suitable for industrial sites.
- ◆ Excellent acclimatization. Can work in a wide temperature range from -20℃ to 50℃. Film panel protects UC-5N from humidity and dust. Its protection grade reaches IP65.
- ◆ UC-5N is a product that is sturdy and durable. Vibration and noise 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 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-5N 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 controller can work stably even under severe vibration condition.

Technical Specification

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	1min ~ 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
Communication interface	RS-485, asynchronous half-duplex
Communication protocol	MODBUS
Communication baud rate	300~38400
Parity checking	EVEN, ODD and NONE

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

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