LoRaWAN® Solenoid Valve Controller UC51x Series





UC51x series LoRaWAN® wireless solenoid valve controller is a device used to remotely control DC latching solenoids of the valve. It contains 2 solenoid interfaces and 1 pulse interface, which can be easily controlled locally or remotely.

Besides ultra-low-power LoRaWAN® technology, UC51x series also provides both solar and built-in battery power supply for uninterrupted operation. For outdoor applications, it equips with IP67-rated enclosure and M12 connectors to protect from water and dust under harsh environments.

Features

- Compatible with standard DC latching solenoids
- OPEN/CLOSE control by mobile APP locally or commands remotely
- One pulse water meter interface for flow monitoring
- Transmission distance up to 11km with line of sight
- Waterproof design including IP67 case and M12 connectors
- Solar powered and built-in chargeable battery
- Quick wireless configuration via NFC
- Time and flow control via Milesight IoT Cloud

◆ Specifications

| Wireless Transmission | | |
|------------------------------|---|--|
| Technology | LoRaWAN® | |
| Frequency | CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923 | |
| Tx Power | 16dBm(868)/20dBm(915)/19dBm(470) | |
| Sensitivity | -137dBm @300bps | |
| Working Mode | UC511: Class A, Class C | |
| | UC512: Class A | |
| Data Interfaces | | |
| Interface Type | M12 A-Coded Male | |
| Solenoid Interface | | |
| Ports | 2 × Solenoid Interfaces | |
| Solenoid Support | 2 wires 12V DC latching solenoids | |
| Cable Length | 1.5m (by default) | |
| Pulse Interface | | |
| Ports | 2 × Pulse Interfaces, support 2 pulse meters | |
| Logical Level | Low: 0~0.9V, High: 2.5~3.3V | |
| Cable Length | 1.5m (by default) | |
| Operation | | |
| Power On & Off | Mobile APP(via NFC), PC software(via USB Type-C), | |
| | power button (Internal), Cable Connection | |
| Configuration | Mobile APP(via NFC) or PC software(via USB Type-C) | |
| Physical Characterist | ics | |
| Operating Temperature | -20°C to +60°C | |
| Ingress Protection | IP67 | |
| Dimension | 120.1 × 120.1× 55.4 mm (4.73 × 4.73 × 2.18 in) | |
| Power Connector | M12 A-Coded Male | |
| Power Supply | 1. Solar powered + Rechargeable battery + 5-24 VDC supply | |
| | 2. 19000mAh replaceable Li-SOCL ₂ battery | |
| Installation | Wall or Pole Mounting | |
| | | |

Ordering Information

| Model | Power Supply |
|---------------|---|
| UC511-DI-868M | 1. Solar powered (5V, 1W) |
| | 2. 2 × 2550mAh chargeable battery |
| | 3. 5-24 VDC powered by M12 connector |
| UC512-DI-868M | 19000mAh replaceable Li-SoCl ₂ battery |

Remark:

"-915M"/"-868M"/"-470M" in the model refers to different LoRaWAN® Frequency in option for different countries/regions, (e.g.)

"-915M": KR920/AS923/AU915/US915

"-868M": IN865/EU868/RU864

"-470M": CN470









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