

LoRaWAN[®] Solenoid Valve Controller

UC51x Series

User Guide



Safety Precautions

Milesight will not shoulder responsibility for any loss or damage resulting from not following the instructions of this operating guide.

- The device must not be remodeled in any way.
- Do not place the device close to objects with naked flames.
- Do not place the device where the temperature is below/above the operating range.
- Make sure electronic components do not drop out of the enclosure while opening.
- When installing the battery, please install it accurately, and do not install the reverse or wrong model.
- The device must never be subjected to shocks or impacts.

Declaration of Conformity

UC51x series is in conformity with the essential requirements and other relevant provisions of the CE, FCC, and RoHS.



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Revision History

Date	Doc Version	Description
Feb. 20, 2021	V 1.0	Initial version
Nov.26, 2021	V 1.1	Description Update
March 10, 2021	V 2.0	Update based on 2.0 hardware
June 15, 2022	V 2.1	 Add internal interface description; UC511 supports Class C to B mode; GPIO supports selecting DI or pulse mode; Update re-join mode and confirmed mode description.

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1. Product Introduction

1.1 Overview

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 2 GPIO interfaces, 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.

1.2 Features

- Compatible with standard DC latching solenoids
- OPEN/CLOSE control by mobile App locally or commands remotely
- Two GPIO interfaces for flow monitoring or valve status monitoring
- Transmission distance up to 15 km 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

2. Hardware Introduction

2.1 Packing List



1 × UC51x Device



2 × Data Cables (1.5 m)

8001





1 × Mounting Bracket M

4 × Wall Mounting Kits









2 × Hose Clamps

1 × Fixing Screw

1 × Quick Guide

1 × Warranty Card

If any of the above items is missing or damaged, please contact your sales Representative.

2.2 Hardware Overview



Interface 1&2:

Pin	Description	
1	DC+/OUT1 of Solenoid Valve	
2	DC-/OUT2 of Solenoid Valve	
3	GND	
4	INSERT BOOT ¹	
5	GND	
6	GPIO Interface	



2.3 Internal Interfaces



¹ PIN3 and PIN4 do not need to connect, see "Solenoid Valve Switch" option in section 3.4.

DIP Switch:

Interface	DIP Switch
Solenoid Interface	12V: 1 on 2 off 3 off
	9V: 1 off 2 on 3 off
	5V: 1 off 2 off 3 on

Note:

- 1) The DIP switch is set to 12VDC by default.
- 2) The DIP switch does not support setting two solenoid interfaces as different voltage types.

Power Button:

Function	Action	LED Indication
Turn On	Press and hold the button for more than 3s.	Off → On
Turn Off	Press and hold the button for more than 3s.	On → Off
Reset	Press and hold the button for more than 10s.	Blinks.
Check		Light On: Device is on.
On/Off Status	Quickly press the power button.	Light Off: Device is off.

2.4 Dimensions (mm)



3. Operation Guide

3.1 Log in the ToolBox

UC51x series can be monitored and configured via ToolBox App or ToolBox software. Please select one of them to complete configuration.

3.1.1 NFC Configuration

1. Download and install "Milesight ToolBox" App from Google Play or Apple App Store.

2. Enable NFC on the smartphone and launch Milesight ToolBox.

3. Attach the smartphone with NFC area to the device to read basic information.

4. Basic information and settings of devices will be shown on ToolBox if it's recognized successfully. You can read and configure the device by tapping the button on the Device Status. In order to protect the security of devices, password validation is required when first configuration. Default password is **123456**.



Note:

1) Ensure the location of smartphone NFC area and it's recommended to take off phone case.

2) If the smartphone fails to read/write configurations via NFC, keep the phone away and back

to try again.

3) UC51x series can also be configured by dedicated NFC reader, which can be purchased from Milesight IoT.

3.1.2 USB Configuration

- 1. Download ToolBox from Milesight IoT website.
- 2. Open the case of UC51x and connect the UC51x to computer via type-C port.



3. Open the ToolBox and select type as "General", then click password to log in ToolBox. (Default password: **123456**)

Туре	General	<u> </u>
Serial port	COM4	•
Login password		
Baud rate	115200	•
Data bits	8	<u>•</u>
Parity bits	None	<u>•</u>
Stop bits	1	•

4. After logging in the ToolBox, you can click "Power On" or "Power Off" to turn on/off device and change other settings.

atus >		Power Or
Model:	UC512-DI-868M	
Serial Number:	646 .	
Device EUI:	24e1244	
Firmware Version:	02.02	
Hardware Version:	2.1	
Device Status:	Off	
Join Status:		
RSSI/SNR:		
Valve1 Status:		
Counter1:	12	
Valve2 Status:		
Counter2:	33	
Battery:	ē.	
Channel Mask:	-	
Uplink Frame-counter:	5.	
Downlink Frame-counter:	-	

3.2 Solenoid Valve Control

Solenoid valve can be controlled by ToolBox App or ToolBox software locally.

Via ToolBox Software:

Click "Open" or "Close" button on the "Status" page to change the status of solenoid valves.

Status >	
Model:	UC512-DI-868M
Serial Number:	6460C
Device EUI:	24e1244
Firmware Version:	02.02
Hardware Version:	2.1
Device Status:	On
Join Status:	Activate
RSSI/SNR:	-31/10
Valve1 Status:	Open Close
Counter1:	1 Clear
Valve2 Status:	Close Open
Counter2:	17 Clear
Battery:	100%
Channel Mask:	00ff

Via ToolBox App:

Click buttons of Valve Status on the "**Device -> Status**" page, then attach the smart phone to device to change the status of solenoid valves.

Status	Setting M	aintenance
Device Status	0	N 🔴
Join Status	1	Activated
RSSI/SNR		-48/10
Device Time	2022-01-27 09:05	Sync
Valve 1 Status	0	ff 🕖
Valve 2 Status	0	ff 🌒
Counter 1	474	Clear
Counter 2	438	Clear
Battery		100 %

3.3 LoRaWAN Settings

LoRaWAN settings is used for configuring the transmission parameters in LoRaWAN[®] network. **Basic LoRaWAN Settings:**

Go to "LoRaWAN Settings -> Basic" of ToolBox software or "Setting -> LoRaWAN Settings" of ToolBox App to configure join type, App EUI, App Key and other information. You can also keep all settings by default.

TXPower

Device EUI	24E124		
App EUI	24E124C0002A0001		
Application Port	85		
Join Type	OTAA 💌		
LoRaWAN Version	V1.1.0	<u>_</u>	
Application Key	****		
RX2 Date Rate	DR0 (SF12, 125k)	<u> </u>	
RX2 Frequency	869525000		
Spread Factor	SF10-DR2		
Confirmed Mode	⑦□		
Rejoin Mode	?⊻		
Set the number of packets sen	t 32	packets	
ADR Mode			

TXPower0-16 dBm

Parameters	Description
Device EUI	Unique ID of the device which can also be found on the label.
App EUI	Default App EUI is 24E124C0002A001.
Application Port	The port used for sending and receiving data, default port is 85.
Join Type	OTAA and ABP mode are available.
LoRaWAN Version	V1.0.2, V1.0.3, V1.1 are available.
Application Key	Appkey for OTAA mode, default is 5572404C696E6B4C6F52613230313823.
Device Address	DevAddr for ABP mode, default is the 5 th to 12 th digits of SN.
Network Session	Nuclear ADD mode default in EEZO4040606E6D406EE0610000010000
Key	Nwkskey for ABP mode, default is 5572404C696E6B4C6F52613230313823.
Application	Appakent for APD mode, default is EE724040606E6D406EE2612220212822
Session Key	Appskey for ABP mode, default is 5572404C696E6B4C6F52613230313823.
RX2 Data Rate	RX2 data rate to receive downlinks.
RX2 Frequency	RX2 frequency to receive downlinks. Unit: Hz
Spread Factor	If ADR is disabled, the device will send data via this spread factor.
Confirmed Mode	If the device does not receive ACK packet from network server, it will resend
Confirmed wode	data once.
Rejoin Mode	The device will send a specific number of LinkCheckReq MAC packets to the

-

	network server every 30 mins to validate connectivity; If there is no response,	
	the device will re-join the network.	
Set the number of packets sent	When rejoin mode is enabled, set the number of LinkCheckReq packets sent.	
ADR Mode	Allow network server to adjust datarate of the device.	
Tx Power	Tx power of the device.	

- 1) Please contact sales for device EUI list if there are many units.
- 2) Please contact sales if you need random App keys before purchase.
- 3) Select OTAA mode if you use Milesight IoT cloud to manage devices.
- 4) Only OTAA mode supports rejoin mode.

LoRaWAN Frequency Settings:

Go to "LoRaWAN Settings-> Channel" of ToolBox software or "Setting -> LoRaWAN Settings" of ToolBox APP to select supported frequency and select channels to send uplinks. Make sure the channels match the LoRaWAN[®] gateway.

Basic		Channel		
	Index	Support Frequency : Frequency/MHz	EU868 💌	Min Datarate
	0	868.1	5-SF7BW125 🗾	0-SF12BW125 _
	1	868.3	5-SF7BW125	0-SF12BW125 *
~	2	868.5	5-SF7BW125 🗾	0-SF12BW125 _
	3	0	5-SF7BW125 _	0-SF12BW125 <u>*</u>
	4	0	5-SF7BW125 🗾	0-SF12BW125 _
	5	0	5-SF7BW125 💌	0-SF12BW125 *
	6	0	5-SF7BW125 🗾	0-SF12BW125 _
_		0	5.057DW405 -	

If frequency is one of CN470/AU915/US915, you can enter the index of the channel that you want to enable in the input box, making them separated by commas.

Examples:

- 1, 40: Enabling Channel 1 and Channel 40
- 1-40: Enabling Channel 1 to Channel 40
- 1-40, 60: Enabling Channel 1 to Channel 40 and Channel 60
- All: Enabling all channels
- Null: Indicates that all channels are disabled

	Support Frequency :	AU915	
Enabled Channel Index: 0-7	1		
Channel Index	Frequency/MHz	Channel Spacing/MHz	BW/kHz
0 - 15	915.2 - 918.2	0.2	125
16 - 31	918.4 - 921.4	0.2	125
32 - 47	921.6 - 924.6	0.2	125
48 - 63	924.8 - 927.8	0.2	125
64 - 71	915.9 - 927.1	1.6	500

For -868M model, default frequency is EU868;

For -915M model, default frequency is AU915.

3.4 Solenoid Settings

Go to "**Device Settings -> Basic**" of ToolBox software or "**Setting -> General Settings**" of ToolBox App to change the reporting configurations.

Reporting Interval	20	min
Solenoid Valve Wiring Switch	⑦ ☑	
GPIO1 Acquisition Type	Digital input	<u> </u>
GPIO2 Acquisition Type	Pulse Counter	<u>•</u>
Data Reporting	All	<u> </u>
Device Return to Power Supply State	Return to previous working state	<u> </u>
Class Type	Class A	<u> </u>
Response Time	600	s
Change Password		
Parameters	Description	

i didileters	Description				
Reporting Interval	Reporting interval of transmitting data to network server. Default: 20min,				
	Range: 1-1080 mins.				

Solenoid Valve	After this parameter is enabled, when users connect the solenoid cable to
Wiring Switch	any solenoid interface, the device will turn on automatically.
	Select Digital Input or Pulse Counter.
GPI01/2	Digital input: detect the state of valve; if any DI changes state, it will
Acquisition Type	upload packet to cover the valve status.
	Pulse counter: connect water meter to measure the flow.
	Select the contents to report to network server.
	All: Report all interface status;
Data Dan artin r	Valve 1 & Water Meter 1: Report the status of the Valve 1 interface and
Data Reporting	data of GPI01;
	Valve 2 & Water Meter 2: Report the status of the Valve 2 interface and
	data of GPIO2.
Device Return to	If the device loses power and return to power supply, the device will be on
Power Supply State	or off according to this parameter.
	Working mode of LoRaWAN [®] device.
	UC511: Class A, Class B and Class C, Class C to B are available;
	UC512: Class A and Class B are available.
Class Type	Note: for Class B mode, if the device does not receive beacons for more
	than 30 minutes, it will switch to Class A mode automatically; for Class C
	to B mode, if the device does not receive beacons for more than 30
	minutes, it will switch to Class C mode automatically.
	When the device works under Class A mode, it only receives control
	commands every reporting interval comes. In order to shorten the delay
Response Time	time of control, the device will send blank package to allow to receive the
	control commands every Response Time interval.
	Note: The shorter the response time, the shorter the battery life.
Ping Slot	When the device works under Class B or Class C to B mode, set the
Periodicity	interval to open the reception window.
Change Password	Change the password for ToolBox App or software to read/write this
	device.

1) When device connects to network server of Milesight gateway, the blank package will take up the frame count but not show on the package list.

2) Reboot or re-join will not affect the counting.

Go to "**Device Settings -> Schedule**" of ToolBox software or "**Setting -> Schedule**" of ToolBox App to configure the solenoid switch plans.

1. Configure a plan as your request and enable it.

tem	Status	Initial state of solenoid valve	Start Time	End Time	Water Volume(Pulses)	Repeat	Valve
1		open 🗸	7:15	7: <mark>18</mark>	5	Every Saturday	182 -
2		Closure -	0:0	0:0			-
3		Closure -	0:0	0:0			-
4		Closure -	0:0	0:0			-
5		Closure -	0:0	0:0			·
6		Closure -	0:0	0:0			·
7		Closure -	0:0	0:0			·
8		Closure -	0:0	0:0			·
9		Closure -	0:0	0:0			-
10		Closure -	0:0	0:0			-
11		Closure -	0:0	0:0			-
12		Closure -	0:0	0:0			-
13		Closure -	0:0	0:0			-
14		Closure -	0:0	0:0			-
15		Closure 🗾	0:0	0:0			·
16		Closure -	0:0	0:0			-

Condition	Description			
Item	It supports adding 16 plans at most.			
Status	Enable or disable this plan.			
Initial State of Solenoid Valve	Control the solenoid to open or close the valve during the plan.			
Start Time/End Time	Set the time range to execute this plan.			
Water Volume (Pulses)	Set the amount of water flow through the valve during this plan, 0 means this condition will not work. Note: 1) Either time or water volume reaches the condition, the plan is completed and will stop executing.			
Repeat	2) When the GPIO type is not pulse counter, this condition will not work.Set the regularly weekly schedule to execute this plan. If none is selected, the plan will only execute once.			

🔮 week				×
🗌 Monday	□ Tuesday	☐ Wednesday	🗌 Thursday	
🗹 Friday	Saturday	Sunday		
		confim		

2. Click "Write" to write the schedule plan setting into the device.

3. Click "Save Schedule" to backup the schedule plan settings as file; if you need to import this schedule from other devices, click "Read Schedule" to import the setting.

4. Click "Clear All" to reset all schedule plan settings in this device.

Note:

Ensure the device time is correct. After joining the network, the network server will assign the time to the device. You can also manually sync the time via ToolBox or downlink commands.
 When the device has multiple schedule plan settings that are conflicted, the device will only

execute one plan whose item number is largest.

3.6 Maintenance

3.6.1 Upgrade

ToolBox Software:

1. Download firmware from www.milesight-iot.com to your PC.

2. Go to "Maintenance -> Upgrade" of ToolBox software, click "Browse" to import firmware and upgrade the device. You can also click "Up to Date" to search for the latest firmware of the device and upgrade.

Maintenance >

Upgrade	Backup and Reset
Model:	UC512-DI-868M
Firmware Version	02.02
Hardware Version	: 2.1
Domain:	Beijing Server
FOTA:	Up to date
Update Locally	

- 1. Download firmware from www.milesight-iot.com to your smartphone.
- 2. Open ToolBox App and click "Browse" to import firmware and upgrade the device.

- 1) Operation on ToolBox is not supported during the upgrade.
- 2) Only Android version ToolBox supports the upgrade feature.

≡ UC512-DI-868M							
		Maintenance					
SN	641	5A51585070020					
Model UC512-DI-868							
Firmware Versi	on	V1.12					
Hardware Versi	on	V1.0					
Manual Upgrade							
Browse							

3.6.2 Backup

UC51x devices support configuration backup for easy and quick device configuration in bulk. Backup is allowed only for devices with the same model and LoRa frequency band. Note that the backup file will not save schedule setting, please backup plan setting on "Schedule" page. Please select one of following methods to backup device:

ToolBox Software:

1. Go to "**Maintenance -> Backup and Reset**", click "Export" to save current configuration as json format backup file.

2. Click "Browse" to select backup file, then click "Import" to import the configurations.

Upgrade	Backup and Res	et			
	_				
Config Backup		Export			
Config File			B	irowse	Import
Restore Factor	y Defaults	Reset			

ToolBox App:

1. Go to "Template" page on the App and save current settings as a template. You can also edit the template file.

2. Select this template and attach to another device to write configuration.

	Templat	e	
			٩
2	EM500-UDL-868M_2 Last Modified Time: 2020-11		
2	EM300-TH-915M_20		
	New Temp	plate	
2-	Please enter temp UC512-DI-868M_20210		
	Cancel	ОК	
		_	

3.6.3 Reset to Factory Default

Please select one of following methods to reset device:

Via Hardware: Open the case of UC51x and hold on power button more than 10s.

Via ToolBox Software: Go to "Maintenance -> Backup and Reset" to click "Reset".

Upgrade	Backup and R	eset		
Config Backup		Export		
2015 64			 Browse	Import
Config File			 Drowse	import
Restore Factor	y Defaults	Reset		

Via ToolBox App: Go to "Device -> Maintenance" to click "Reset", then attach smart phone with NFC area to UC51x to complete reset.

≡ uc	≡ UC512-DI-868M							
Status		Maintenance						
SN	6415	A51585070020						
Model		UC512-DI-868M						
Firmware Ver	sion	V1.12						
Hardware Ver	sion	V1.0						
Manual Upgra	Manual Upgrade							
	Browse							
Restore Facto	ry Default							
	Reset							

4. Installation

UC51x series support wall mounting or pole mounting. Before installation, make sure you have the mounting bracket, wall or pole mounting kits and other required tools.

Wall Mounting:

1. Fix the wall plugs into the wall, then fix the mounting bracket to the wall plugs with screws.

2. Put the device on the mounting bracket, then fix the bottom of the device to the bracket with a fixing screw.



Pole Mounting:

1. Straighten out the hose clamp and slide it through the rectangular rings in the mounting bracket, wrap the hose clamp around the pole. After that use a screwdriver to tighten the locking mechanism by turning it clockwise.

2. Put the device on the mounting bracket, then fix the bottom of the device to the bracket with a fixing screw.



5. Milesight IoT Cloud Management

UC51x series can be managed by Milesight IoT Cloud platform. Milesight IoT cloud is a comprehensive platform that provides multiple services including device remote management and data visualization with the easiest operation procedures. Please register a Milesight IoT Cloud account before operating following steps.

5.1 Add UC51x to Cloud

1. Ensure Milesight LoRaWAN[®] gateway is online in Milesight IoT Cloud. For more info about connecting gateway to cloud please refer to gateway's user guide.

Dashboard	Devices		Gateways	+		
My Devices	Search		٩	⊘ Normal 1 🔊 Offline 1 ⊗ Inac	ctive 0	+ New Devices
2 Map		Status	Name	Associated Devices (Joined /Not Joined /Failed)	Last Updated	
Triggers		al	UG Gateway 621793129987	0/0/0 Detail	a few seconds ago	<u>ن</u> الا
Event Center 56		æ	UG Gateway 6222A3243835	0/1/0 Detail	2021-02-03 09;41	
Sharing Center						

2. Go to "My Devices" page and click "+New Devices". Fill in the SN of UC51x and select associated gateway.

* SN:	6415A51585070020	
* Name :	UC511	
* Associated Gateway:	UG Gateway	Y
* Device EUI:	24e124415A515850	
* Application Key:	5572404c696e6b4c6f52613230313823	

3. Click and go to "Basic Settings" to change class type the same as device settings.

asic Settings	Interface Settings	Main	itenance	Log			Refresh	Shar
	* Nai	me:	UC511					
	* Application k	Key:	5572404c696e	6b4c6f526132303138	23			
	LoRaWAN Class	1:	classA			\sim		
					iguration changes) from next scheduled uplink fr			
	Descripti	on ·						

Besides, configure the unit of per pulse if you connect the water meter.

asic Settings	Interface Settings	Maintenance	Log			Refresh	Shar
		-		2			
	Descr	iption:					
					11		
	* Unit Per	Pulse: 1			gal 🗸		
	* Reporting Inter	val (): 20			min		

4. Click and go to "Interface Settings" to select used interfaces and customize the name and thresholds.

Dashboard	Devices / UC511	/ Interface Settings							
My Devices	Basic Setting	js Interfa	ce Settings	Maintenance	Log				Refresh
Map	Enable (1)	Name	Туре		Cust	om Name		Current Value	Alarm Threshold
Triggers		Valve 1	Valve	Closed	Closed	Open	Open	Closed	= Disable \lor
Reports	~	Valve 2	Valve	Closed	Closed	Open	Open	Open	= Disable V
Event Center 58 Sharing Center	Enable ①	Name		Currer	nt Value		Unit		Alarm Threshold
Me		Valve 1 - Last flow v	olume		0		gal	<u>ح</u>	
		Valve 1 - Total flow	olume		0		gal	۲ ۲	
		Valve 2 - Last flow v	olume		0		gal	ے ک	
								≤	

5.2 Solenoid Valve Control

Solenoid valve can be controlled by Milesight IoT cloud webpage or App.

1. Click to open the solenoid valve and configure the duration. Note that if you enable any local plan on UC51x device, this control will not work.



You can also add a switch on the dashboard to control the status of solenoid valves.

Milesight IoT Cloud		Milesight IoT 🥌
🕜 Dashboard	Dashboard_1 ··· +	Add Edit [0]
My Devices	UC511-Valve 1 UC511-Valve 2	
🖄 Map	Closed Open	
ifu Triggers	OpenValve 1 X	
Reports	UC511-Valve 1 - Last flow volur * Please set the duration of operating: min	
Event Center 58	. O _{gal}	
🛆 Sharing Center	Cancel Open	
R Me		

Note: If the working mode of UC51x is LoRaWAN[®] Class A, control commands will delay until the time icon disappear.

Devices		Gateways	+				
Search		٩	⊘ Normal	1 🛛 🖄 Alarm 0	3 🛞 Inactive 0		+ New Device
	Status	Name		Interface Status		Update Time	
		UC511	Closed Valve 1	Ogal Valve 1 - Last flow volume	Ogal Valve 1 - Total flow volume		a lu a
	all	6415A51585070020	Closed Valve 2	Ogal Valve 2 - Last flow volume	Ogal Valve 2 - Total flow volume	2 minutes ago	0 <u>v</u> 0
	30	UC501 6412A5196409		GPIO_2 Temperature			@ <u>~</u> 0

2. Go to "Triggers" page to add actions to trigger the solenoid valve to open for a period of time or a specific volume of water.

Note: Water volume control is only worked when you connect water meter to UC51x device.

Milesight	Milesight IoT
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② Dashboard	<		
My Devices	Title		
🖄 Мар			
Ifo Triggers	Conditions Relationship : A		
Reports	Condition A	When the time is	\vee \bigcirc
Event Center 58		00:00 🕓	
Sharing Center		Sun. Mon. Tues. Wed. Thur. Fri. Sat	
R Me	Actions		
A. 2007	Action A	Trigger device(s) to	\vee $(\bigcirc$
		UC511 (6415A51585070020)	\checkmark
		Valve 1	~
		Open	\sim
		and the duration is	\sim
		min	
		Cancel Save	

6. Device Payload

UC51x Series use the standard Milesight IoT payload format based on IPSO. Please refer to the **UC51x Series Communication Protocol**; for decoders of Milesight IoT products please click <u>here</u>.

-END-