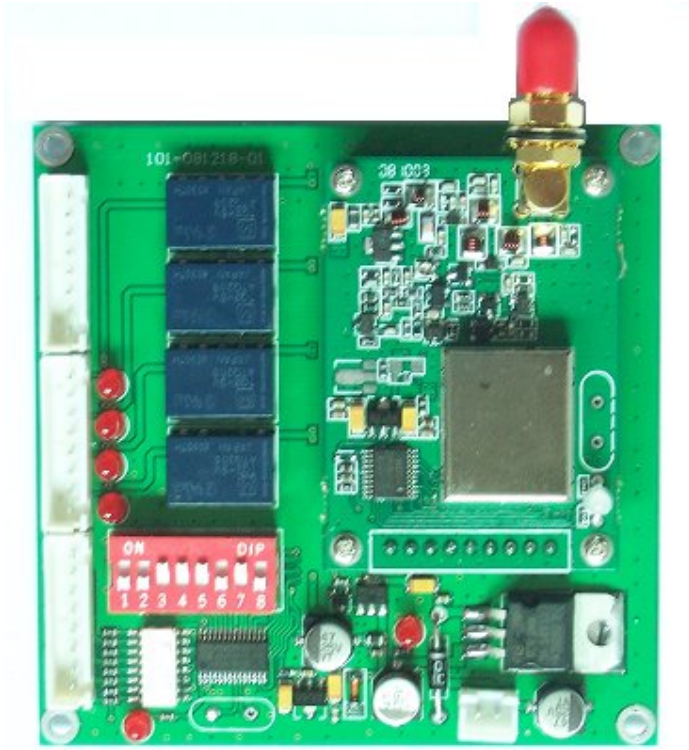


## KYL-812 wireless ON-OFF input and output module user manual



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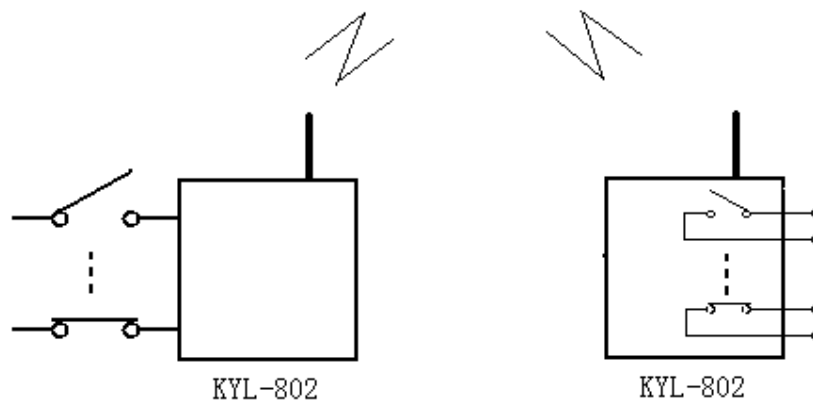
Before using our products, please read the user manual carefully.  
Any questions, please contact us at the above mentioned ways.

KYL-812 wireless ON-OFF input and output module is a kind of wireless transmission equipment with 4-channel DI and 4-channel relaying DO.

## I. The Function of KYL-812

With 4 channel ON-OFF DI and DO, KYL-812 can transmit data timely. The ON-OFF condition of the transmitting equipment can be output timely to the receiver equipment. That is the ON-OFF condition for the transmitting equipment is shut down, while the ON-OFF condition will be shut down at the receiver equipment; and the transmitting equipment is disconnect, while the receiver equipment will disconnect.

The following is the schematic diagram of the ON-OFF transmission.



Schematic diagram

## II、 Features of KYL-812

With 4-channel coupler isolated inputs, KYL-812 has high reliability and stability.

4-channel relay causes dry contact output, contact current is 30V 1A.

4-channel 5V power supply causes voltage output.

Use with wireless data transmission module whose transmitting distance is 2-3km.

Working frequency: 433MHz (400-470MHz are also available);

RF power: 500mW;

Receiving sensitivity: -120dBm

Receiving current: 30mA;

Transmitting current: 300mA

Power supply: DC 9-15V

Size: 82mm\*82mm

### III. DIP switch definition

1. DIP8 : Working mode options:
  - ON—send the input conditions. The module sends the input conditions by 4-channel ON-OFF
  - OFF—send data every 1s or 2s; principal equipment sends out 4-channel input condition to the subordinate equipments (not real-time transmission)
2. DIP7 : Principal and subordinate mode choosing under the timing mode:
  - ON—subordinate equipment, OFF—principal equipment
3. DIP6 : Sending interval choosing under the timing mode:
  - ON—slow (2s one time), OFF—fast (1s one time)
4. DIP5 : No definition
5. DIP1-4 : Channels choosing (maximum 16 channels)

The following is a channel correspondence table for DIP switch 1-16:

DIP NO.	Channel No.	DIP NO.	Channel No.	DIP NO.	Channel No.	DIP NO.	Channel No.
	1		5		9		13
	2		6		10		14
	3		7		11		15
	4		8		12		16

Note:

- \* Clients generally use the input to change sending mode, DIP7-ON;
- \* To avoid more than two remote control systems working at the same time in the same remote control range, the module for different systems should choose different channels (working frequency);
- \* Under the timing mode, there should be one subordinate equipment and one principal equipment;
- \* The module should be re-powered to get into effect after changing the DIP position.

### VI. Connection Definition

Connection name	Pin No.	Definition	Remarks
COM1	1	GND	Grounding of power supply

	2	VCC	DC : 9-15V
COM2	1	IN1	First group ON-OFF input
	2	GND	
	3	IN2	Second group ON-OFF input
	4	GND	
	5	IN3	Third group ON-OFF input
	6	GND	
	7	IN4	Fourth group ON-OFF input
	8	GND	
COM3	1	GND	First channel voltage controlling output (5V)
	2	LED1	
	3	GND	Second channel voltage controlling output (5V)
	4	LED2	
	5	GND	Third channel voltage controlling output (5V)
	6	LED3	
	7	GND	Fourth channel voltage controlling output (5V)
	8	LED4	
COM4	1	OUT1	First channel relay dry contact output
	2		
	3	OUT2	Second channel relay dry contact output
	4		
	5	OUT3	Third channel relay dry contact output
	6		
	7	OUT4	Fourth channel relay dry contact output
	8		

### V: How to use KYL-812

1. Set the DIP switch according to your using requirement and then connect power (12V), the switch input and the correspondence switch output as per the above instruction.
2. Turn on the power
3. The factory setting is contact sending mode and working channel is No.1.

**IV. Exterior sketch map**

