

HR-804 Wireless ON-OFF input and output module User manual

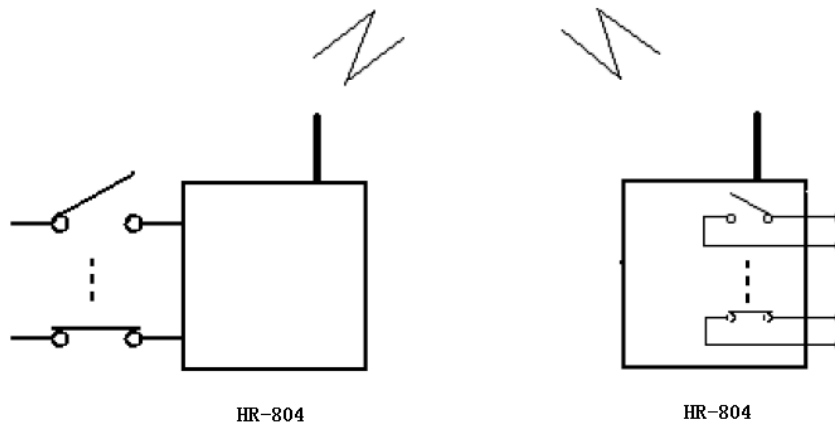


HR-804 wireless ON-OFF input and output module is a wireless transmission equipment with four 4-channel DI and 4-channel relay DO.

I. Function

4 channel ON-OFF DI and DO transmitting timely. The 4 channel ON-OFF condition for the transmitting equipment can be output timely at 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、 Feature:

- 1、 4-channel coupler isolated inputs, high reliability and stability.
- 2、 4-channel relay dry contact output, contact current is 30V 1A.
- 3、 4-channel 5V voltage output。
- 4、 collocate wireless data transmission module with 2-3km.
Working frequency 433MHz(400-470MHz);
RF power: 500mW;
Receive sensitivity: -120dBm
- 5、 Receive current: 30mA; transmitting current: 300mA
- 6、 Power supply: DC 9-15V
- 7、 Size: 82mm*82mm

III. DIP switch definition

DIP8: Working mode choosing:

ON—send the inputting conditions. The module will send the inputting conditions of the 4-channel ON-OFF

OFF—send timely every 1s or 2s; principal equipment will send the 4-channel input condition to the subordinate equipment (non-realtime transmission)

DIP7: Principal and subordinate mode choosing under the timing mode:

ON—subordinate equipment, OFF—principal equipment

















DIP6: Sending interval choosing under the timing mode:

ON—slow(2s one time), OFF—fast(1s one time)

DIP5: No definition

DIP1-4: Channels choosing (max 16 channels)

The following is the 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:

* Users generally use the inputting change sending mode, DIP7-ON;

- * To avoid more than two remote control systems working at the same time in one remote control range, the module for different system should choose different channel (working frequency);
- * Under the timing mode, it should be one subordinate equipment, and one principal equipment;
- * It should be effect by re-power on the module 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: Using method

- 1、 First according to your using requirement, setting the DIP switch and connecting the power(12V), the switch input and the correspondence switch output by following the above instruction.
- 2、 Turn on the power
- 3、 It is the contact sending mode and the working channel is No.1 default.

IV. Exterior sketch map

