

Table 1: Registers Definition (Read-Write Registers, Nonvolatile)

ADDR	SYMBOL	NAME	NODE
0	ADDR	Device Address	1~255
1	WKMD	Work Mode	0: Manual 1: Automate
2	SDMD	Send types	0: serial port 1: RF (433MHz) 2: GSM (SMS) 3: GPRS (TCP)
3	BAUD0	Main serial rate	UNIT:100bps (Temporary unused)
4	BAUD1	Auxiliary serial port rate	
5	DAT_PRO	Data protocol	(Temporary unused)
6	SOL_NUM	measurement scheme	(Temporary unused)
7	INTE_STO	interval of storage	UNIT: ms
8	INTE_SND	interval of send	UNIT: ms
9	AL2MINS	Standby interval	UNIT: Minute,1~1440
10	LIGHT_SEC	backlight seconds	UNIT: second
11	AT_SHDN	shutdown seconds	UNIT: second
12	AT_DELP	Percent deletion	0~99%
13	AT_DELM	deletion months	1~99
14	DBCLICK_MS	Double click MS	
15	LPRESS_MS	Long press MS	
16	RCD_H	Data record number	
17	RCD_L		
18			
19	GPS_EN	Switch of GPS	0:Close 1:Open
20	VM_EXTYPE		
21	VM_EXPVOL		
22	VM_TEMPTYPE		
23			
24	ADC1_ADDCNT	Extended measurement plus constant	Physical value = ( measured value + plus constant ) * multiplication constant *0.01
25	ADC1_MULCNT	Extended measurement multiplication constant	
26	ADC1_UNIT	Extended measuring unit	Two ASCII characters

27	ADC2_ADDCNT		
28	ADC2_MULCNT		
29	ADC2_UNIT		
30	NETWT	Waiting for the network	0:Force wait TIME1 seconds
			1: Wait up to TIME1 seconds
31	TIME1	Waiting for the network seconds	Waiting time for wireless network registration (seconds)
32			
33	TIME3	Sending time limit	Time limit for sending data (seconds)
34~39	RDC_PH1	Data center number	Phone Numbers
40~56	RDC_IP1	TCP Server Address	String, up to 32 bytes
57	RDC_PT1	TCP Server Port	0~65535
58~61	APN	Network access point	CMNET: China Mobile
			UNINET: China Unicom
62	IPMOD	TCP Address types	0: Domain Name
			1:IP address

Table 2: Registers Definition (Read-Write Registers, Volatile)

ADDR	SYMBOL	NAME	NODE
64	SYSERR	Running error code	(Temporary unused)
65	RTC_YM	Real-time clock - year and month	BCD code
66	RTC_DH	Real-time clock - Day and Hour	
67	RTC_MS	Real-time clock - Min and Sec	
68	STT_NUM	transparent transmission number	0:
			1:
			2: VM301
			3: GPS

Table 3: Registers Definition (Only-Read Registers)

ADDR	SYMBOL	NAME	NODE
69	VIN	Battery Voltage	UNIT: mV
70	DISK_SIZE	Internal storage space size	UNIT: Kbyte
71	DISK_FREE	Internal storage remaining space	UNIT: Kbyte

<b>72</b>	DISK_USED	Storage space utilization	UNIT: %
<b>73</b>			
<b>74</b>			
<b>75</b>	STA01	device state	The status of each function module in the device 0: ; 1: exception
<b>76</b>	STA02	State of the wireless	(Temporary unused)
<b>77</b>	SIGNAL	wireless signal strength	0~31
<b>78~99</b>			
<b>100~123</b>	CH01~CH24	Channel 01~24 real time value	

#### Device State Register

bit	function module	bit	function module
<b>Bit0</b>	RTC	Bit8	VM301
<b>Bit1</b>	Machine Code	Bit9	Temperature and humidity
<b>Bit2</b>	internal storage	bit10	atmospheric pressure
<b>Bit3</b>	U Disk	bit11	Air Quality
<b>Bit4</b>		bit12	16bits ADC01
<b>Bit5</b>	GPS	bit13	16bits ADC02
<b>Bit6</b>	compass	bit14	
<b>Bit7</b>	Dual-axis tilt	bit15	