

**Basic Measurement Parameter Address**

Real-time Measurement Address Table: 03H Read				
Address(H)	Address(D)	Parameter	Data Type	Access Property
0200H-0201H	512-513	Voltage	Float	R
0202H-0203H	514-515	Current	Float	R
0204H-0205H	516-517	Power	Float	R
0206H-0207H	518-519	AO1	Float	R
0208H-0209H	520-521	AO2	Float	R
020AH-020BH	522-523	DI1 Count Value	UNIT32	R
020CH-020DH	524-525	DI2 Count Value	UNIT32	R

**Running Time**

Running Time: 03H Read					
Address(H)	Address(D)	Parameter	Range	Data Type	Access Property
0280H-0281H	640-641	Meter running time	0~999999999	Long	R
0282H-0283	642-643	Load running time	0~999999999	Long	R

**Energy**

Energy and Charge (Ah) Address Table: 03H Read					
Address(H)	Address(D)	Parameter	Range	Data Type	Access Property
0300H-0301H	768-769	Import energy	0~999999999	Long	R/W
0302H-0303H	770-771	Export energy	0~999999999	Long	R/W
0304H-0305H	772-773	Total energy	0~999999999	Long	R/W
0306H-0307H	774-775	Net energy	0~999999999	Long	R/W
0308H-0309H	776-777	Import Ah	0~999999999	Long	R/W
030AH-030BH	778-779	Export Ah	0~999999999	Long	R/W
030CH-030DH	780-781	Total Ah	0~999999999	Long	R/W
030EH-030FH	782-783	Net Ah	0~999999999	Long	R/W

The relationship between the register value and the real value(Rx is the register value)

Parameter	Relationship	Unit
Voltage	Real=Rx	V
Current	Real=Rx	A
Power	Real=Rx	kW
Energy	Real=Rx/100	kWh
Ah	Real=Rx/100	Ah
AO	Real=Rx	V or mA(depends on the AO type)
Running Time	Real=Rx/100	Hour

## Real Time Clock Address Table

Real Time Clock Address Table					
Address(Hex)	Address(Dec)	Parameter	Range	Data Type	Property
0284H	644	Year	2000~2099	Word	R/W
0285H	645	Month	1~12	Word	R/W
0286H	646	Day	1~31	Word	R/W
0287H	647	Hour	0~59	Word	R/W
0288H	648	Minute	0~59	Word	R/W
0289H	649	Second	0~59	Word	R/W

## MIN record

(Data obtained only by AcuDC 243 meter equipped with storage function.)

MIN Records Address Table: 03H Read					
Address(Hex)	Address(Dec)	Parameter	Range	Data Type	Property
0460H-0461H	1120-1121	Voltage MIN		Float	R
0462H	1122	Time: Year, Month Day, Hour, Minute, Second	High byte: Year; low byte: month	Word	R
0463H	1123		High byte: day; low byte: hour		
0464H	1124		High byte: minute; low byte: second		
0465H-0466H	1125-1126	Current MIN		Float	R
0467H	1127	Time: Year, Month Day, Hour, Minute, Second	High byte: Year; low byte: month	Word	R
0468H	1128		High byte: day; low byte: hour		
0469H	1129		High byte: minute; low byte: second		
046AH-046BH	1130-1131	Power MIN		Float	R
046CH	1132	Time: Year, Month Day, Hour, Minute, Second	High byte: year; low byte: month	Word	R
046DH	1133		High byte: day; low byte: hour		
046EH	1134		High byte: minute; low byte: second		

## Data Logging Setting

**Note:** Data obtained only by AcuDC 243 meter equipped with function.

Data Logging Setting Address Table: 03H read; 16H preset							
Address (Hex)	Address (Dec)	Parameter	Range	Initial Value	Data Type	Property	Register Number
0500H	1280	Enable data logging	0:Disable 1:Enable	0	Word	R/W	1
0501H	1281	Mode of data logging	0:mode 1, continuous mode(start after set parameters) 1:mode 2, timing start and stop 2:mode 3, specifies the start time(hour, minute)	0	Word	R/W	1
0502H	1282	Interval time	1~1440(Minute)	5	Word	R/W	1
0503H	1283	Start time(year, month)	High Byte: year(00~99) Low Byte: month(1~12)		Word	R/W	1

ACUDC 240 MODBUS MAP

0504H	1284	Start time(day, hour)	High Byte: day(1~31) Low Byte: hour(0~23)	(Only used in mode 2)	Word	R/W	1
0505H	1285	Start time (minute)	High Byte: minute(0-59) Low Byte: reserved		Word	R/W	1
0506H	1286	End Time (year,month)	High Byte: Year(00~99) Low Byte: month		Word	R/W	1
0507H	1287	End Time (day,hour)	High Byte: day(1~31) Low Byte: hour(0~23)		Word	R/W	1
0508H	1288	End Time (minute)	High Byte: minute(0~59) Low Byte: reserved		Word	R/W	1
0509H	1289	The specified start recording time: hour and minute	High Byte: hour(0~23) Low Byte: minute(0~59)	(Only used in mode 3)	Word	R/W	1
050AH	1290	Number of registers in a log	Register number:1-26	0	Word	R/W	1
050BH-0524H	1291-1316	The contents of a log(Modbus Register)		0	Word	R/W	26

Log Status Block

Log Status Address Table: 03H read						
Address (Hex)	Address (dec)	Parameter	Range	Data Type	Property	Register Number
0700H-0701H	1792-1793	Max Records	0-350890	Unit32	R	2
0702H-0703H	1794-1795	Used Records	0-350890	Unit32	R	2
0704H	1796	MAX records in the Retrieval window		Word	R	1
0705H-0706H	1797-1798	Newest NO of records		Unit32	R	2
0707H-0708H	1799-1800	Oldest NO of records		Unit32		2
0709H	1801	Newest Record Time stamp	High Byte: Year(00-99) Low Byte: Month(1-12)	Word	R	3
070AH	1802		High Byte: Day(1-31) Low Byte: hour(0-23)			
070BH	1803		High Byte: Minute(0-59) Low Byte: reserve			
070CH	1804	Oldest Record Time stamp	High Byte: Year(00-99) Low Byte: Month(1-12)	Word	R	3
070DH	1805		High Byte: Day(1-31) Low Byte: hour(0-23)			
070EH	1806		High Byte: Minute(0-59) Low Byte: reserve			
070FH	1807	Memory Status	High Byte: reserve Low Byte:FEH, memory is erasing; other, erased	Word	R	1

Log Retrieval Address Table					
Address(Hex)	Address(Dec)	Parameter	Range	Data Type	Property
0601H-0602H	1537-1538	Starting Record No.	Olderst No. of records~Newest No. of Records+1	Unit32	R/W
0603	1539	Records number(High byte)	High byte: 1~the MAX record number in a window	Word	R/W
		Record status(low byte) read only, write invalidate	Low byte:0~the MAX record number in a window:effective number of records in the window; FDH: Non-effective 'Start record No.' or invalid 'record number in a window'; FEH: memory is erasing FFH: Non-effective data		
0604H-067BH	1540-1659	Window	Window data: time mark(6 Bytes) + [data1~dataN](4N bytes) Invalid data set to 0		

## System Parameter Setting Address

System Parameter Settings: 03H read; 16H preset						
Address (Hex)	Address (Dec)	Parameter	Range	Default	Data Type	Property
0100H	256	Password	0~9999	0000	Word	R/W
0101H	257	Device Address	1~247	1	Word	R/W
0102H	258	Baud Rate	1200;2400;4800; 9600;19200;38400	19200	Word	R/W
0103H	259	Parity Setting	0:Even; 1:Odd; 2:None1; 3:None2	2	Word	R/W
0104H	260	Full Range Current Value	20~50000A	20	Word	R/W
0105H	261	Full Range Shunt Value	50~100mV	100	Word	R/W
0106H	262	Current Hall Effect Sensor(V)	0:0~±5V 1:0~±4V	1		
		Current Hall Effect Sensor(mA)	0:4~20mA 1:4~12~20mA			
0107H	263	Full Range Voltage Value	5~9999	1000	Word	R/W
0108H	264	Voltage Hall Effect Sensor	0:0~±5V 1:0~±4V	1	Word	R/W
0109H	265	AO1 Parameter	0:voltage 1:current 2:power	0	Word	R/W
010AH	266	AO1 Lower Limit Sign	0:+ ; 1:- ; 2:±	0	Word	R/W
010BH	267	AO1 Lower Limit	0~100(%)	0	Word	R/W
010CH	268	AO1 Upper Limit Sign	0:+ ; 1:- ; 2:±	0	Word	R/W
010DH	269	AO1 Upper Limit	0~100(%)	100	Word	R/W
010EH	270	AO2 Parameter	0:voltage 1:current	0	Word	R/W

ACUDC 240 MODBUS MAP

			2:power			
010FH	271	AO2 Lower Limit Sign	0:+ ; 1:- ; 2:±	0	Word	R/W
0110H	272	AO2 Lower Limit	0~100(%)	0	Word	R/W
0111H	273	AO2 Upper Limit Sign	0:+ ; 1:- ; 2:±	0	Word	R/W
0112H	274	AO2 Upper Limit	0~100(%)	100	Word	R/W
0113H	275	RO1 Mode	0: Latch; 1:Momentary; 2:Alarm	2	Word	R/W
0114H	276	RO1 Momentary Time Delay	300~5000ms	1000	Word	R/W
0115H	277	RO1 Alarm Parameter	0:No Alarm; 1:Voltage; 2:Current; 3:Power	0	Word	R/W
0116H	278	RO1 Alarm Inequality	0:Smaller than; 1:Larger than	0	Word	R/W
0117H	279	RO1 Alarm Time Delay	0~255s	5	Word	R/W
0118H-0119H	280~281	RO1 Alarm Threshold	The same as full range values		Float	R/W
011AH	282	RO2 Mode	0: Latch; 1:Momentary; 2:Alarm	2	Word	R/W
011BH	283	RO2 Momentary Time Delay	300~5000ms	1000	Word	R/W
011CH	284	RO2 Alarm Parameter	0:No Alarm; 1:Voltage; 2:Current; 3:Power	0	Word	R/W
011DH	285	RO2 Alarm Inequality	0:Smaller than; 1:Larger than	0	Word	R/W
011EH	286	RO2 Alarm Time Delay	0~255s	5	Word	R/W
011FH-0120H	287-288	RO2 Alarm Threshold	The same as full range values		Float	R/W
0121H	289	Backlight Brightness level	1~5	5	Word	R/W
0122H	290	Clear Energy	0X0A: Enable		Word	W
0123H	291	Clear Meter Running Hour	0X0A: Enable		Word	W
0124H	292	Clear Load Running Hour	0X0A: Enable		Word	W
0125H	293	DI Working Mode	According to Bit value: 0:Level mode; 1:Count mode; Bit0: DI1 working mode Bit1: DI2 working mode	3	Word	R/W
0126H	294	Clear DI Count Value	According to Bit value: 0:Not clear 1:Clear Bit0:Clear DI1 Bit1:Clear DI2		Word	W
0127H	295	Clear Ah	0X0A: Effective		Word	W
0128H	296	Clear MAX/MIN Value	0X0A: Effective		Word	W
0129H	297	Clear Data Logging	0X0A: Effective		Word	W

**DI Status**

DI Address Table: 02 read					
Address(Hex)	Address(Dec)	Parameter	Range	Data Type	Property
0000H	0	DI1	1=ON; 0=OFF	Bit	R
0001H	1	DI2	1=ON; 0=OFF	Bit	R

**Relay Status**

Relay Status Table: 01 read; 05 write					
Address(Hex)	Address(Dec)	Parameter	Range	Data Type	Property
0000H	0	DO1	1=ON; 0=OFF	Bit	R/W
0001H	1	DO2	1=ON; 0=OFF	Bit	R/W