

Read electric data log format

Meter supports 32000 pieces of data log at most. Each data log contains eight electric parameter data. The interval of data log is set by pressing buttons on meter or through communication. Please refer to communication address list.

Historical data frame contains thirty two words. First three words are time data. The other twenty nine words are electric parameter data. Electric parameter data is secondary value. Description of data frame is shown in following list.

Parameter	Format	Unit
Recording time	Int	High byte:year low byte:month
Recording time	Int	High byte:day low byte:hour
Recording time	Int	High byte:minute low byte:second
V1	Int	0.1V
V2	Int	0.1V
V3	Int	0.1V
V12	Int	0.1V
V23	Int	0.1V
V31	Int	0.1V
I1	Int	0.001A
I2	Int	0.001A
I3	Int	0.001A
P	Int	1W
Q	Int	1var
S	Int	1VA
F	Int	0.01Hz
THDv1	Int	0.01%
THDv2	Int	0.01%

THDv3	Int	0.01%
THDI1	Int	0.01%
THDI2	Int	0.01%
THDI3	Int	0.01%
kWh+	Long	1Wh
kWh-	Long	1Wh
kvarh+	Long	1varh
kvarh-	Long	1varh
kVAh	Long	1VAh
User set1	Int	
User set2	Int	
User set3	Int	
User set4	Int	
User set5	Int	
User set6	Int	

Take reading the latest piece of log as example. Data type is hexadecimal.

Host request: 01 14 07 06 00 04 00 00 00 20 09 3C

Slave response: 01 14 42 41 06

0E 0A 17 0D 04 09 00 00 00 00 00 00 00 00 00 00

y:m d:h m:s V1 V2 V3 V12 V23

00 00 00 00 00 00 00 00 00 00 00 00 00 00

V31 I1 I2 I3 P Q S F

00 00 00 00 00 00 00 00 00 00 0F 20

THDv1 THDv2 THDv3 THDI1 THDI2 THDI3 kWh+

00 00 00 00 00 00 1A 28 00 00 00 00 00 00 1E 37 74 89

kWh- kvarh+ kvarh- kVAh CRC

AHM1 electric data format: