

COMMAND TO OBTAIN VALUES IN REAL TIME (MON)

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#00 371CB895 000056F5 00005782 00005783 000252EC 00025532 00022752 00007FFB 00008329
00007641 00002096 000017B6 0000219A 00000000 00000000 00000000 00000060 00000062
0000005F 00001388 000185BA 000000DA 0000011C 006D 00B0 00A2 01FF 0364 030E FE FD 00
FD FE FE 00 FE
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	HEXA	CONVERT	FINAL VALUE
data	371CB895	Special process	14/12/2005 11:34:21
V(L1)	000056F5	Convert to decimal and divide by 100	222,61
V(L2)	00005782		224,02
V(L3)	00005783		224,03
I(L1)	000252EC	Convert to decimal and divide by 1000	152,300
I(L2)	00025532		152,882
I(L3)	00022752		141,138
Kw(L1)	00007FFB	Convert to decimal and divide by 1000	32,763
Kw(L2)	00008329		33,577
Kw(L3)	00007641		30,273
KvarL(L1)	00002096	Convert to decimal and divide by 1000	8,342
KvarL(L2)	000017B6		6,070
KvarL(L3)	0000219A		8,602
KvarC(L1)	00000000	Convert to decimal and divide by 1000	0
KvarC(L2)	00000000		0
KvarC(L3)	00000000		0
P.F.(L1)	00000060	Convert to decimal and divide by 100	0.96
P.F.(L2)	00000062		0.98
P.F.(L3)	0000005F		0.95
Hz	00001388	Convert to decimal and divide by 100	50.00
KVA	000185BA	Convert to decimal and divide by 1000	99,7700
Unbalance coefficient	000000DA	Convert to decimal and divide by 1000	0.218
Asymetry coefficient	0000011C	Convert to decimal and divide by 1000	0.284

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THD_V(L1)	006D	Convert to decimal and divide by 100	1,09
THD_V(L2)	00B0		1,76
THD_V(L3)	00A2		1,62
THD_I(L1)	01FF	Convert to decimal and divide by 100	5,11
THD_I(L2)	0364		8,68
THD_I(L3)	030E		7,82
units V	FE	Signed char process	-2
units I	FD	Signed char process	-3
units P	00	Signed char process	0
units unbalance / asymethry	FD	Signed char process	-3
units THD_V	FE	Signed char process	-2
units THD_I	FE	Signed char process	-2
flagevq_tfl (1)	00	Signed char process	0
Nº frequency decimals	FE	Signed char process	-2

Data processs:

371CB895

Then convert every hexa character to binary:

0011 0111 0001 1100 1011 1000 1001 0101

Then separate all these numbers in this way and then convert to decimal:

0(offset) = this is the base year. Is allways 0. It means that you must add to the year 1992

01101(year)= 13 (1992 + 13 = 2005)

1100(month)=12 (december)

01110(day)= 1

01011 (hour)=11

100010(minutes)= 34

010101(seconds)= 21

This means that I have send the command MON at 11:34:21h the day 14/12/2005

Unit process

These variables tell us which is the number X (10^x) to apply to a determined variable.
These variables are signed char what means that it's necessary to make the following process to obtain the number X.

For example: Variable: Units V Value: FE

FE (convert to decimal) \longrightarrow 254 If you use complement numbers, converting again in hexa this is a -2. So it means that we have to take the variable "Voltage" and multiply by 10^{-2} to obtain the correct value in volts.

Another example: Variable: Units I Value: FD

FE (convert to decimal) \longrightarrow 254 If you use complement numbers, converting again in hexa this is a -3. So it means that we have to take the variable "Current" and multiply by 10^{-3} to obtain the correct value in amps.

EVQ (EVENTS)

This values tell us if it is happening an event in this moment and in which phase.

(1) Shows if there is an EVQ or a TFL (voltage out of limits). If there is an EVQ the bit is 1, if not is 0:

b7	b6	TFL L3	TFL L2	TFL L1	EVQ L3	EVQ L2	EVQ L1
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