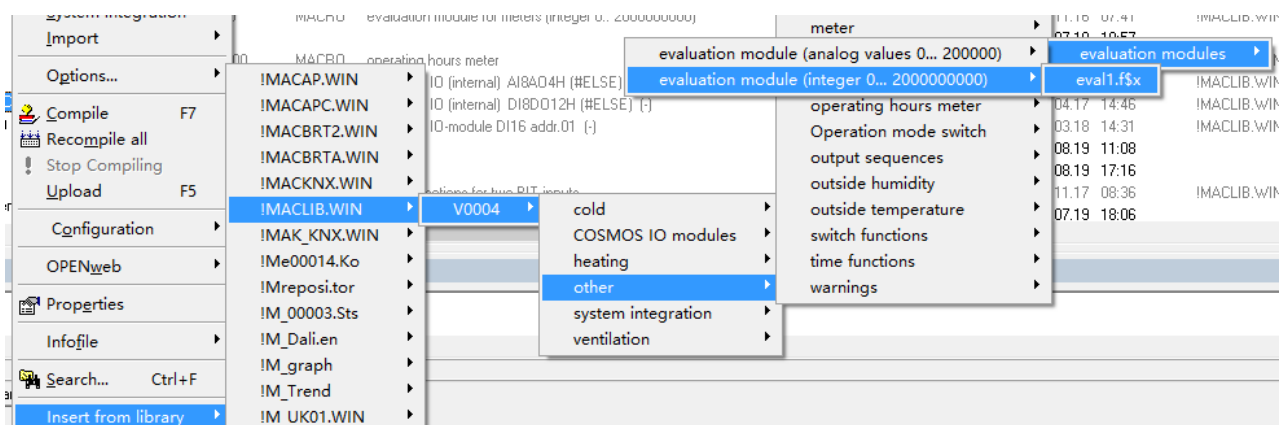


## TT190906 – FUP - Energy Analysis Macro

1. We have a macro called “eval1” that can help you to analyses the energy usage in graphical format by hourly, daily, monthly, etc.



2. First, we add the “eval1” macro to the controller



3. Link it to the counter macro (count\_04) we used in TT190905

Definition	Definition specification	Comment
26		
27	<b>set graphic page &gt; dialog calls</b>	
28		
29		
30	def_seite01 count_04.f00:50 "pulse meter for C500/C600: service"	FUP page: meter —> ( page 50 > service )

- Assign the units and link it to the “meter\_value” reference in the “count\_04” macro

DDC101: eval1.f00 x		
Filter entry		
Definition	Definition specification	Comment
51		
52	<b>set UI page &gt; physical unit ( maximum 3 characters )</b>	
53		
54		
55	def_einh01 kWh	1. physical unit of the setpoint (e.g. lux, %, Pa, ppm)
56	def_einh02 kWh	2. physical unit of the setpoint (e.g. lux, %, Pa, ppm)
57		
58		
59		
60		
61		
62		
63	<b>declare FUP page &gt; cross references ( maximum 13</b>	
64		
65		
66	def_ext01 count_04.f00:meter_value "pulse meter for C500/C600:	meter value current
67	def_ext02 const.f:dig_null "assignment of the constants: constant	external central reset

- Compile and upload to the controller. It's under “other”, “analysis module”. In the “time settings” page, you can see the meter readings

Transfer

- COSMOS IO modules
- Circuit times
- General
- Service controller
- other
  - Meter
  - clock timer
  - dew point calculation
  - scale
  - analysis module
    - measure per day
    - measure per hour (1)
    - measure per interval
    - measure per month (1)
    - measure per week
    - measure per year
    - time settings
  - marker function

measure per week
measure per month
measure per year

time settings
measure per interval
measure per hour
measure per day

interval (hh:mm) Time 00:10 weekly Saturday at 23:59  
hourly (hh:mm) Time hh:00 monthly on 31 at 23:59  
daily at 23:59 yearly on 01.01 at 00:01

pulse meter for C500/C600

meter value

meter value current : 0000000065  
meter value reset ☐  
meter value after reset : 0000000000

impulse valency

number pulses 1  
correspond 1

- First, you need to setup the date/time for the data collection (like below), e.g, daily at 23:59, and yearly on Jan 1, at 00:01. If it's a new controller, you can just do a “preset” to default value

time settings
measure per interval
measure per hour
measure per day

interval (hh:mm) Time 00:10 weekly Saturday at 23:59  
hourly (hh:mm) Time hh:00 monthly on 31 at 23:59  
daily at 23:59 yearly on 01.01 at 00:01

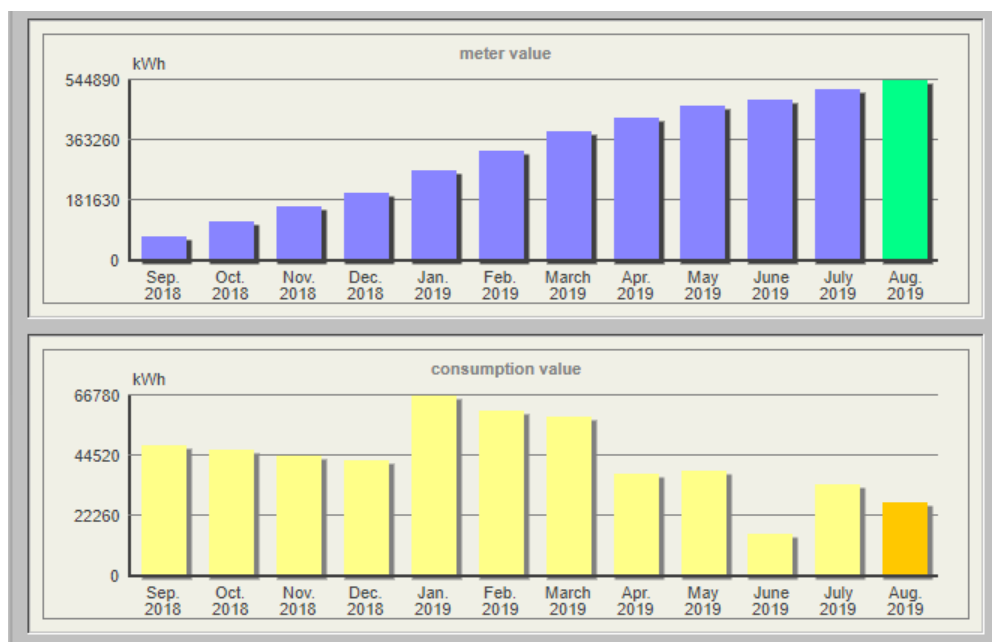
- Click on the tabs to see the energy analysis graph for different periods

measure per week
measure per month
measure per year

evaluation module for meters (integer 0.. 2000000000)
Details

meter value current : 544877 kWh  
time : 15:04  
date : 27.08.2019  
unit for meter value : kWh  
unit for consumption value : kWh

8. Please note you will need to wait for a longer period in order to see the graphic for day, month, etc.



9. Click on the “Details” button, to view the measurements for each period, and calculation of the energy usage per period

