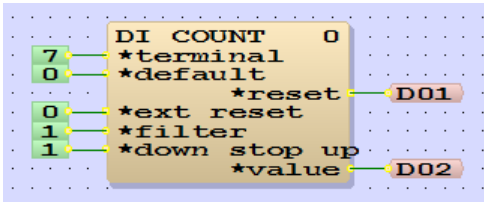


TT190905 – FUP - Pulse Counter Module

1. To use the pulse counter input in our controller, we can use the “DI_COUNT” module. First, add a new FUP page called “counter.f”



2. We use DI7 in this example. Connect a “Display” to the “reset” to reset the counter. Set the “Updating” to “Read and Write” so that you can reset the counter manually. The output “value” is pulses count as type ULI

The screenshot shows the 'DI COUNT' module configuration and the 'Properties Display' window for the 'BIT' type. The 'reset' input is connected to D01, and the 'value' output is connected to D02. The 'Updating' is set to 'Read and write'. The 'Simulation value' is 0. The 'Pre-text' is 'Reset' and the 'Post-text' is empty. The 'Default value' is 0.

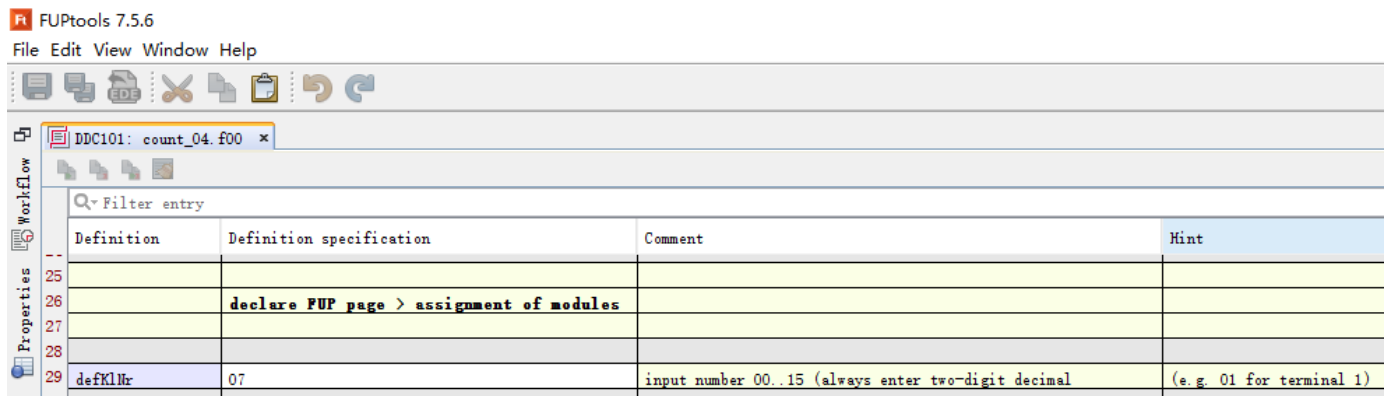
3. Compile and upload to the controller. The counter will be added by 1 if a pulse is detected at DI7. Set “Reset” to 1 to reset the counter to 0

The screenshot shows the web interface with the URL '192.168.170.101/client/index.html'. The interface displays the 'Counter' value as 81. The 'Reset' button is visible, and the 'Reset' input is set to 0.

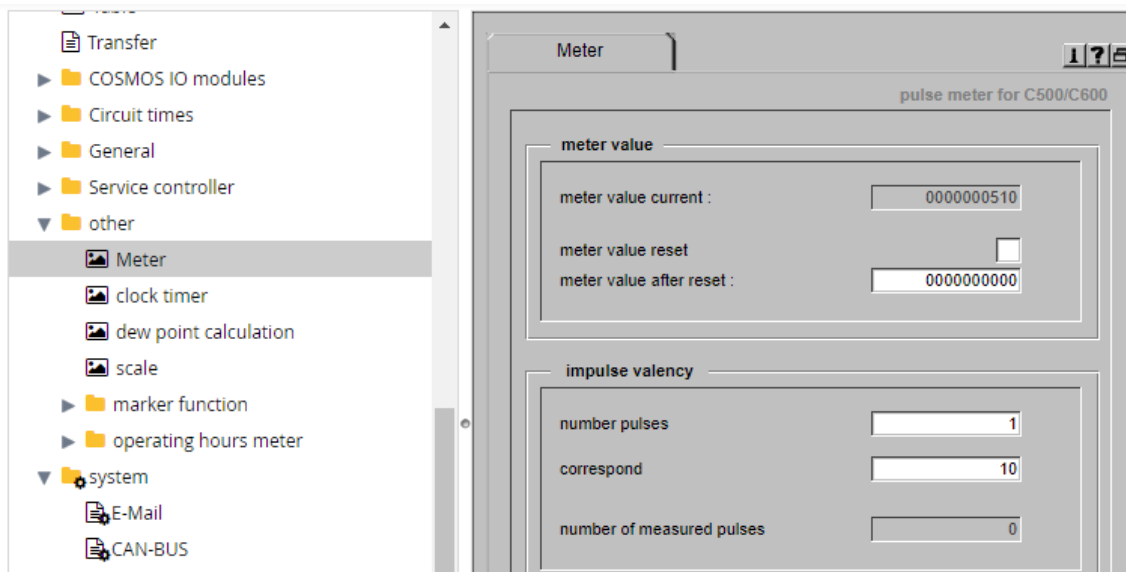
4. You can also use our macro called “count_04” for this purpose. First, add it to your controller

The screenshot shows the software interface with the 'count_04' macro selected. The macro is added to the controller. The 'count_04' macro is selected from the 'internal DI-module (COSMOS 500/600)' category. The 'count_04.f\$' file is selected from the 'hardware-impulse' category. The 'count_04.f\$' file is selected from the 'software-pulse' category.

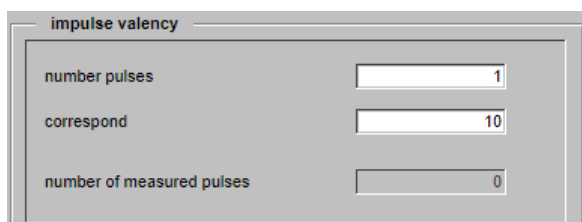
5. Connect the input to pulse counter point



6. Compile and upload to the controller. It's under "other"



- Click the "Meter value reset" to reset the "meter value current" to 0. You can reset it to any value by typing the value you want in the "Meter value after reset", and then click reset
- You can set the "number of pulses" to the corresponding value here. For example, below is 1 pulse means 10 Wh.



- For the example below, 10 pulse means 1kWh. You can see the "number of measured pulses" go up when a pulse is received, and once it goes up to 10, the "meter value current" will be added by 1, and the "number of measured pulses" will reset to 0

