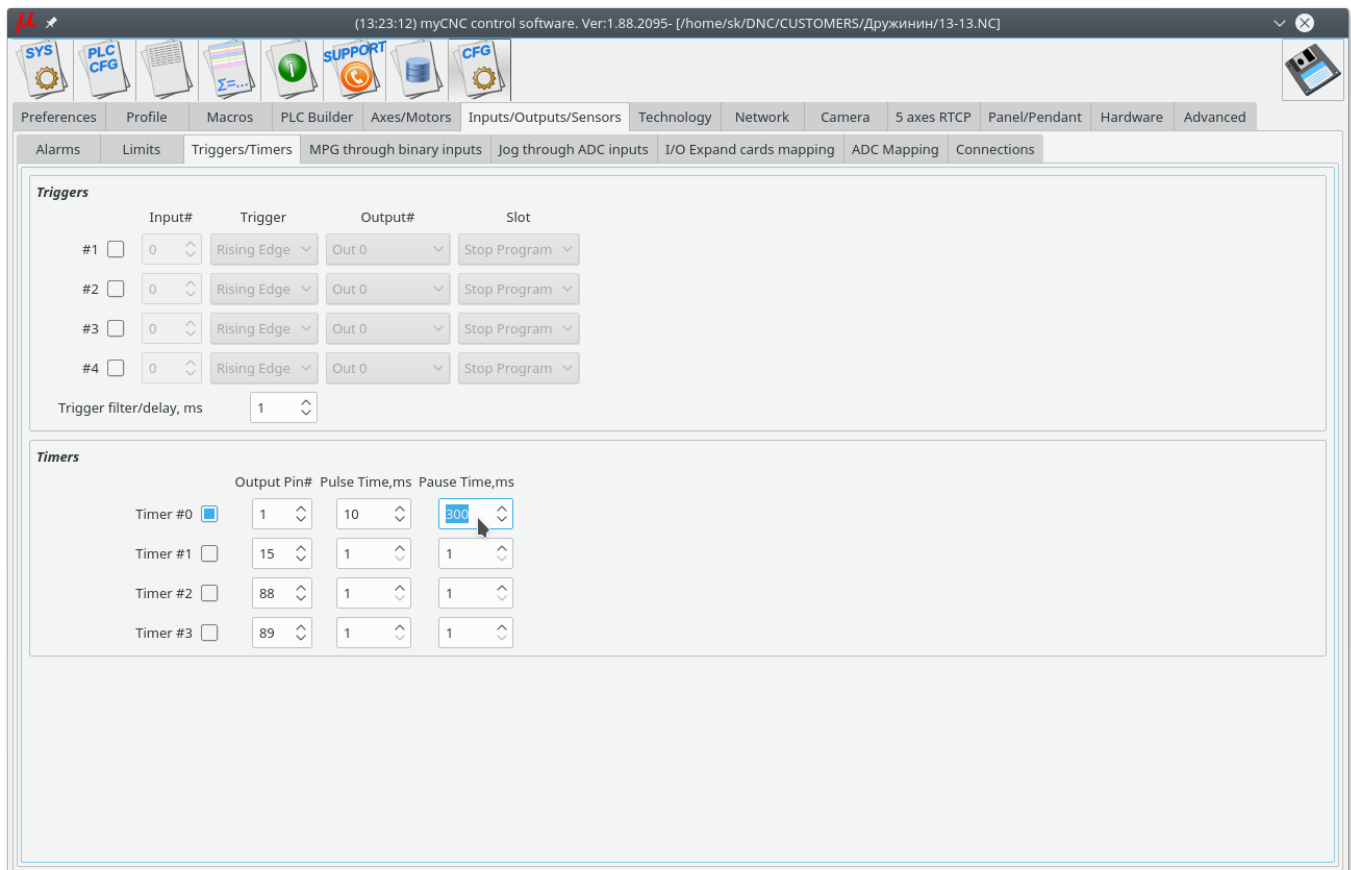


# myCNC Timers

myCNC controllers support up to 4 timers.

- Each timer can be assigned to any output pin.
- Pulse time (in milliseconds) and Pause time (in milliseconds) can be setup for each timer
- Timers can be enabled/disabled from myCNC software setup dialog or through number of Global Variable registers.

myCNC software configuration dialog to setup Timers is shown below



## Global Variable Registers to control myCNC Timers

Variable Name	Address	Description
<b>Timer0</b>		
GVAR_TIMER0_ENABLED	8100	Writing "0" to this register will disable Timer0, writing "1" will enable Timer0
GVAR_TIMER0_PORT	8101	Writing to this register will change Output pin connected to Timer0. Writing value is the Output Pin#
GVAR_TIMER0_PULSE	8102	A value written to this register is Timer 0 Pulse width in milliseconds
GVAR_TIMER0_PAUSE	8103	A value written to this register is Timer 0 Pause in milliseconds
<b>Timer1</b>		
GVAR_TIMER1_ENABLED	8104	Writing "0" to this register will disable Timer1, writing "1" will enable Timer1

Variable Name	Address	Description
<b>Timer0</b>		
GVAR_TIMER1_PORT	8105	Writing to this register will change Output pin connected to Timer1. Writing value is the Output Pin#
GVAR_TIMER1_PULSE	8106	A value written to this register is Timer 1 Pulse width in milliseconds
GVAR_TIMER1_PAUSE	8107	A value written to this register is Timer 1 Pause in milliseconds
<b>Timer2</b>		
GVAR_TIMER2_ENABLED	8108	Writing "0" to this register will disable Timer2, writing "1" will enable Timer2
GVAR_TIMER2_PORT	8109	Writing to this register will change Output pin connected to Timer2. Writing value is the Output Pin#
GVAR_TIMER2_PULSE	8110	A value written to this register is Timer 2 Pulse width in milliseconds
GVAR_TIMER2_PAUSE	8111	A value written to this register is Timer 2 Pause in milliseconds
<b>Timer3</b>		
GVAR_TIMER3_ENABLED	8112	Writing "0" to this register will disable Timer3, writing "1" will enable Timer3
GVAR_TIMER3_PORT	8113	Writing to this register will change Output pin connected to Timer3. Writing value is the Output Pin#
GVAR_TIMER3_PULSE	8114	A value written to this register is Timer 3 Pulse width in milliseconds
GVAR_TIMER3_PAUSE	8115	A value written to this register is Timer 3 Pause in milliseconds

## How to use Timers in Hardware PLC

Here is an example of Timer0 setup in PLC procedure

M169 is Timer0 initialization and start

[M169.plc](#)

```
main()
{
    gvarset(8101,1); // Setup Out#1 as Timer0 output
    gvarset(8102,5); // Pulse width is 5ms
    gvarset(8103,45); // Pause time is 45ms (Period is 5+45=50ms)

    gvarset(8100,1); //Start Timer0
    exit(99);
};
```

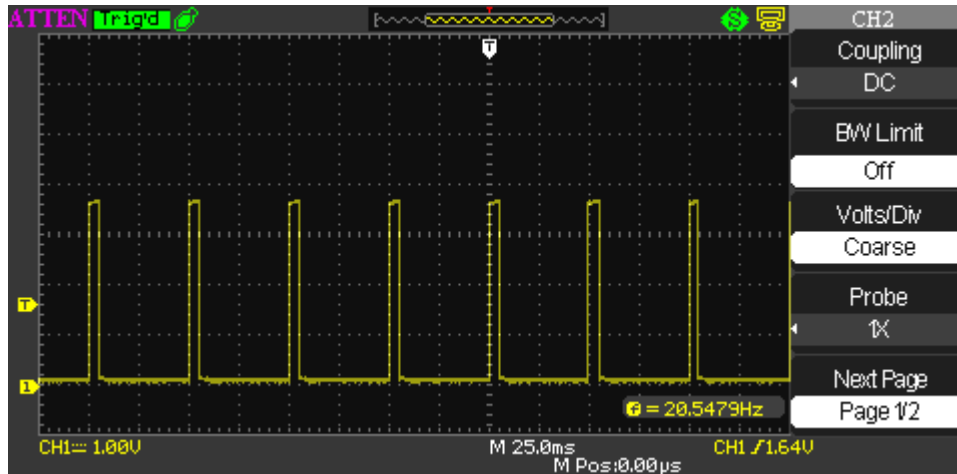
M168 is Timer0 stop

[M168.plc](#)

```
main()
{
```

```
gvarset(8100,0); //Stop Timer0  
exit(99);  
};
```

The result is shown on a picture below



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