

Low-Frequency Pulse Generator

There are 4 low-frequency pulse timers in the system

Software PLC control

Address	Variable Name	Description
0x10000AB	EXT_MYTIMER_SET	Set up, enable/disable pulse generator
0x10000AC	EXT_MYTIMER_SET_PULSE	Set pulse time (in milliseconds)
0x10000AD	EXT_MYTIMER_SET_PAUSE	Set pause time (in milliseconds)

Pulse generator set up

Writing to the Software PLC register number 0x10000AB is used to set up Pulse generator.

- Byte 0 of written value is the OUT port number for the pulse generator
- Byte 2 - set the current state of the pulse generator. Bit #1 is to enable/disable the generator.
 - 0 - timer **DISABLED**
 - 2 - timer **ENABLED**
- Byte 3 - timer number.

Software PLC example: set up and turn the generator ON

[PULSES_ON.plc](#)

```
#define port_num 8
#define t_pulse 200
#define t_pause 800

main()
{

    gvarset(0x10000ac,t_pulse);
    gvarset(0x10000ad,t_pause);

    x=port_num|(2<<16);
    gvarset(0x10000ab,x);

    exit(99);

};
```

Software PLC example: set up and turn the generator OFF

[PULSES_OFF.plc](#)

```
#define port_num 8
```

```
main()
{
    gvarset(0x10000ab,port_num);
    exit(99);
};
```

Hardware PLC control

Address	Variable Name	Description
8100	GVAR_TIMER0_ENABLED	0 - DISABLE; 1- ENABLE
8101	GVAR_TIMER0_PORT	Set Output pin number for timer/generator 0
8102	GVAR_TIMER0_PULSE	Set pulse time in milliseconds for timer/generator 0
8103	GVAR_TIMER0_PAUSE	Set pause time in milliseconds for timer/generator 0
8104	GVAR_TIMER1_ENABLED	0 - DISABLE; 1- ENABLE
8105	GVAR_TIMER1_PORT	Set Output pin number for timer/generator 1
8106	GVAR_TIMER1_PULSE	Set pulse time in milliseconds for timer/generator 1
8107	GVAR_TIMER1_PAUSE	Set pause time in milliseconds for timer/generator 1
8108	GVAR_TIMER2_ENABLED	0 - DISABLE; 1- ENABLE
8109	GVAR_TIMER2_PORT	Set Output pin number for timer/generator 2
8110	GVAR_TIMER2_PULSE	Set pulse time in milliseconds for timer/generator 2
8111	GVAR_TIMER2_PAUSE	Set pause time in milliseconds for timer/generator 2
8112	GVAR_TIMER3_ENABLED	0 - DISABLE; 1- ENABLE
8113	GVAR_TIMER3_PORT	Set Output pin number for timer/generator 3
8114	GVAR_TIMER3_PULSE	Set pulse time in milliseconds for timer/generator 3
8115	GVAR_TIMER3_PAUSE	Set pause time in milliseconds for timer/generator 3

Hardware PLC example: set up and turn the generator ON

[M07.plc](#)

```
#define port_num 8
#define t_pulse 200
#define t_pause 800

main()
{

    gvarset(8100,1);
    gvarset(8101,port_num);
    gvarset(8102,t_pulse);
    gvarset(8103,t_pause);

    exit(99);
```

```
};
```

Hardware PLC example: set up and turn the generator OFF

M09.plc

```
main()  
{  
  gvarset(8100,0);  
  exit(99);  
};
```

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