



- WORK IN PROGRESS

# Popup messages

This is an expanded manual that serves to introduce the user to the concept of popup messages beyond the basics described in the [MyCNC Configuration Dialogs](#) manual.

The screenshot shows the 'CNC Settings' window with the 'Popup Messages' section selected in the left sidebar. The main configuration area includes the following fields:

- Popup Message #**: 0
- Position X**: (empty)
- Y**: (empty)
- Size**: 600 x 300
- Header**: lost due to either Emergency Stop or Servo Alarm
- Header Size**: (empty) x 40
- Header Font Size**: 16
- Message**: Please run Homing
- Message Size**: (empty) x (empty)
- Message Font Size**: 24
- Footer**: [%d]
- Footer Height**: (empty) x 20
- Footer Font Size**: 20
- Button Image**: home/xyz
- Button Size**: 80 x 80
- Action**: direct-run:M138
- Hide timeout**: 5
- Variable**: 99
- K**: 1

The following settings are available:

- Popup Message Number
- Position (X&Y) on the screen
- Size of the popup window (in pixels)
- Header (title) of the popup message
- Header size and font size
- Message (body) of the popup window which allows to present additional information to the user
- Message size and font size
- Footer of the popup message
- Footer size and font size
- Button image (specify the file location)
- Button size
- Button action to run a specific macro when the button is clicked
- Timeout to hide the popup window (in seconds)
- Variable number to display (usually in footer, through [%d]) - useful to display a changing variable, like time in seconds, etc.
- Coefficient K to multiply the variable by. Useful to convert tiny incremental changes (such as fractions of a second) or large rapidly changing numbers into numbers that can be easily read by the user.

Popup messages are controlled by writing a **1** or a **0** into global variables #9100-9163 (1 to bring up the popup, 0 to close it). Therefore, the user can set up to 64 possible popup messages within the myCNC software by going into Settings > Config > Screen > Popup Messages and assigning the necessary messages there. Afterwards, the message can be brought up either through a PLC procedure, like so:

```
gvarset(9160,1);
```

or by using a G-code command (for example, within a macro) such as

```
G10 L80 P9160 Q1
```

which will write a 1 in the global variable #9160.

## Examples of popup messages implementation

### M660

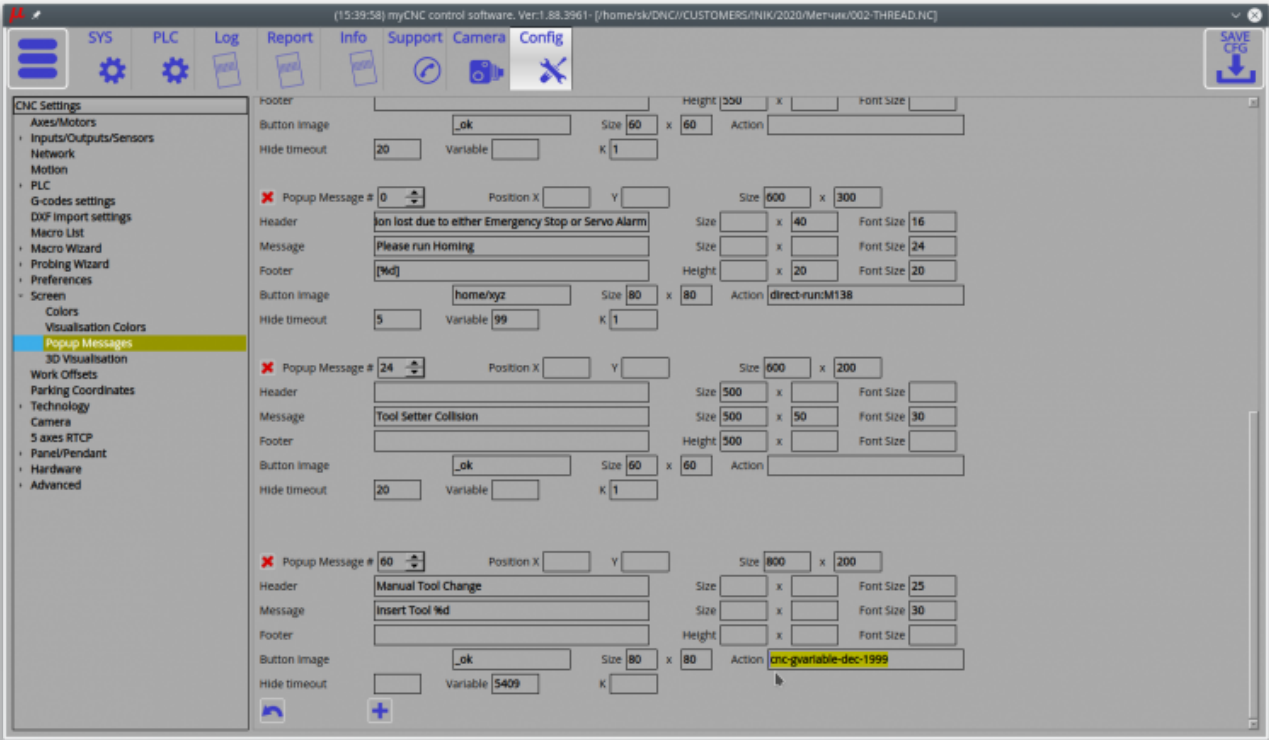
M660 PLC procedure is supposed to be a handler for manual tool change. It shows a “Manual Tool Change” message, then waits in a loop till tool changed. There can be a software flag (global variable register) indicating tool changed or the procedure can wait till a hardware button (connected to the controller input) is pressed. Below is an example of a manual tool change handler M660.plc:

```
main()
{
    gvarset(1999,1); //set flag
    timer=0;
    flag=1;
    do{
        timer++;
        if ((timer&0xff)==0) //check every 0.25 sec
        {
            gvarset(9160,1); //show the Manual Tool Change Message #60
            flag=gvarget(1999); //check the flag, if flag<=0, then tool changed
            and a job should be resumed
        };

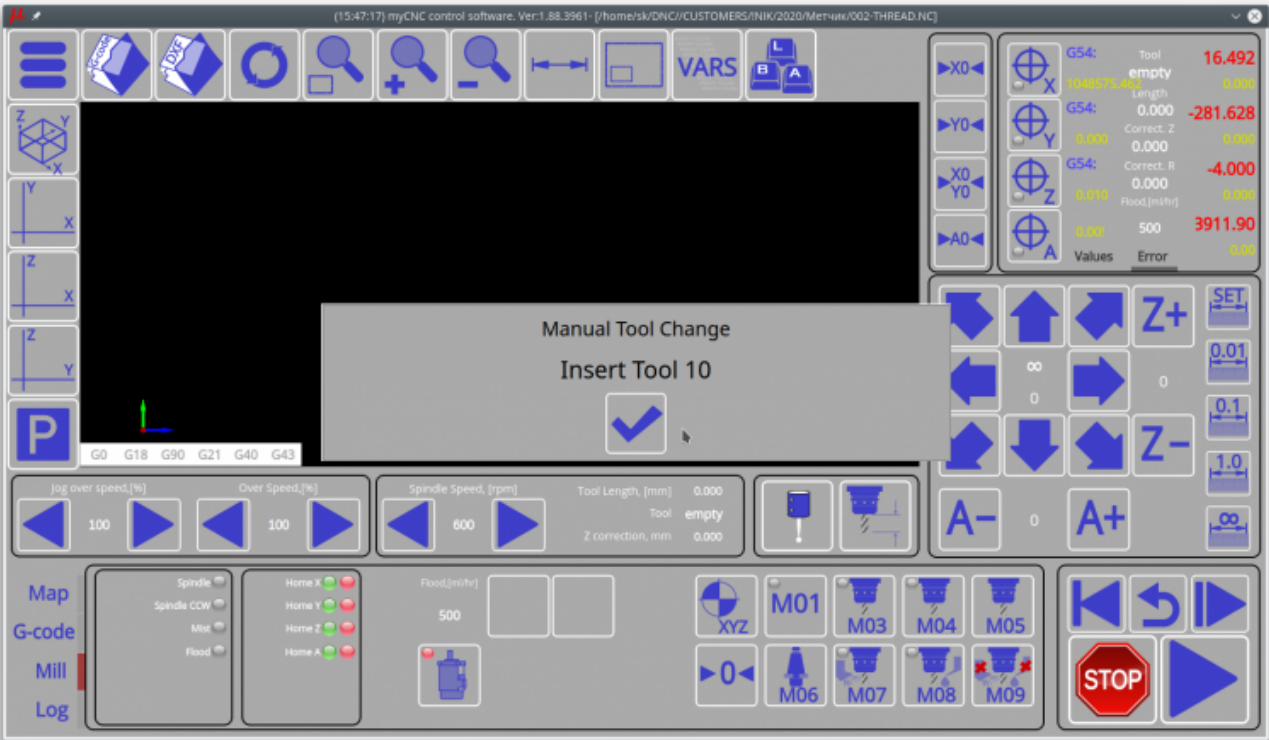
        }while(flag>0);

    gvarset(9160,0); //clear the Message
    exit(99);
};
```

Setup for message #60 in Settings > Config > Screen > Popup Messages:



Resulting popup message:



M604

```
#include pins.h
main()
```

```
{
  //clamp new tool
  portclr(OUTPUT_TOOL_CLAMP);

  timer=300;do{timer--;}while(timer>0);

  timer=2000;
  do
  {
    timer--;
    t=portget(INPUT_TOOL_CLAMPED);// 5
    if (t!=0)
    {
      exit(99);
    };
  }while(timer>0);

  gvarset(9124,1);
  timer=20;do{timer--;}while(timer>0);

  message=PLCCMD_MOTION_BREAK;
  timer=20;do{timer--;}while(timer>0);

  exit(99);
};
```

From:

<http://docs.pv-automation.com/> - **myCNC Online Documentation**

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