# Poseidon & M1 – Monitor one

*Getting started with Poseidon in M1 – a SNMP-enabled infrastructure monitoring software*

All functions described here can be tested with the free demo version that is limited to 8 IP addresses and 24 hours of operation. For testing, you can use our Poseidon units that are available online. You can find their URLs at the HW group website: *Sitemap > Online Demos*.

This "Starting Guide" will help you get started with M1 – Monitor one:

- Basic Poseidon settings
- Temperature measurement demo in M1
- Creating a new project
  - Adding a Poseidon unit to M1 manually
  - Automatic network discovery
  - Basic overview of the readings
- What is a Shooter
  - Automatic alarm
  - Concise display of current temperature (SnipMon)
  - Raising an alarm if the temperature deviates by ±5°C from a specified value
  - More Shooters
- More information about M1

***TIP:** Watch a Flash video with to this guide.*

Click to play **Starting Guide**

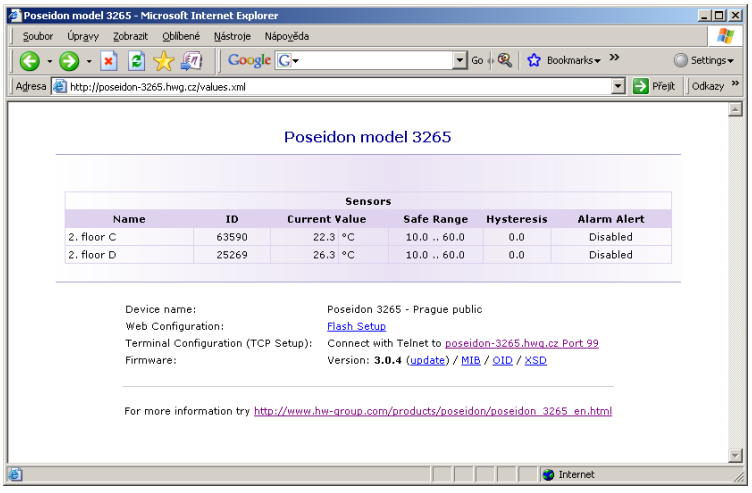
*The video is available at the start-up CD supplied with Poseidon units, or at the HW group website.*

*For a **short video about M1**, click here:*

Click to play flash video preview..

## Basic Poseidon settings

The Poseidon unit that supplies readings to M1 must have a correct IP address and at least one connected sensor. To check the IP address, simply open it in your browser.



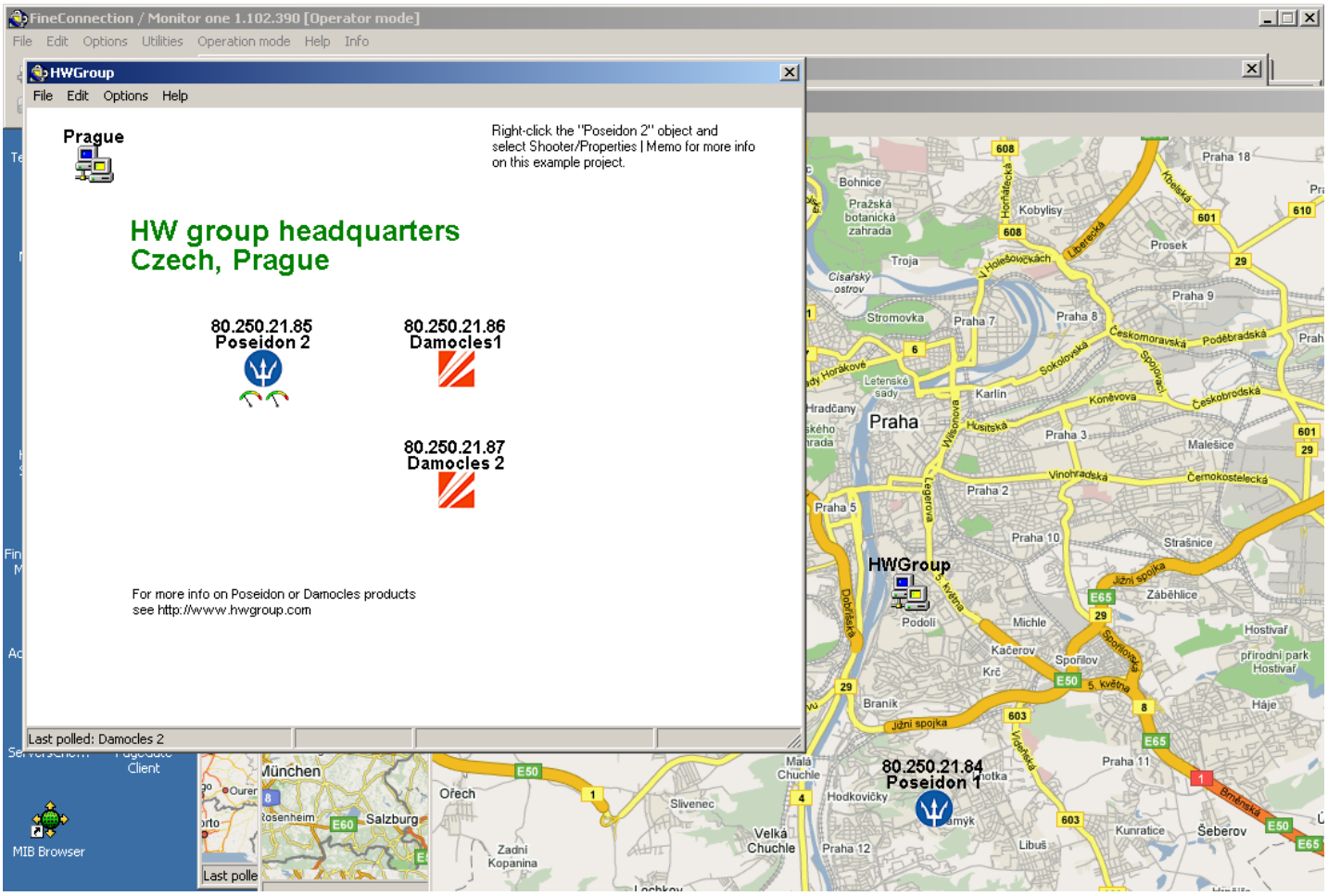

This guide uses a Poseidon 3265 unit located in the HW group office in Prague. It is available at http://poseidon-3265.hwg.cz or 80.250.21.85.

For details about Poseidon models, see the **Poseidon XXXX** table: http://www.hw-group.com/products/poseidon/poseidon_xxxx_en.html

# Temperature measurement demo in M1

To get acquainted quickly with the temperature monitoring capabilities of M1 – Monitor one, open the **ready-made demo**. When M1 is launched, a prompt to create a new project / open an existing one is displayed.

After installing M1, the demo is located at:
`C:\Monitor one Maps\Example projects\Temp_monitoring.amd`




The predefined demo shows a number of Monitor one functions suitable for environment monitoring.

All values in the demo come from online Poseidon and Damocles units. For a list of publicly available units, see http://www.hw-group.com/sitemap.html#online

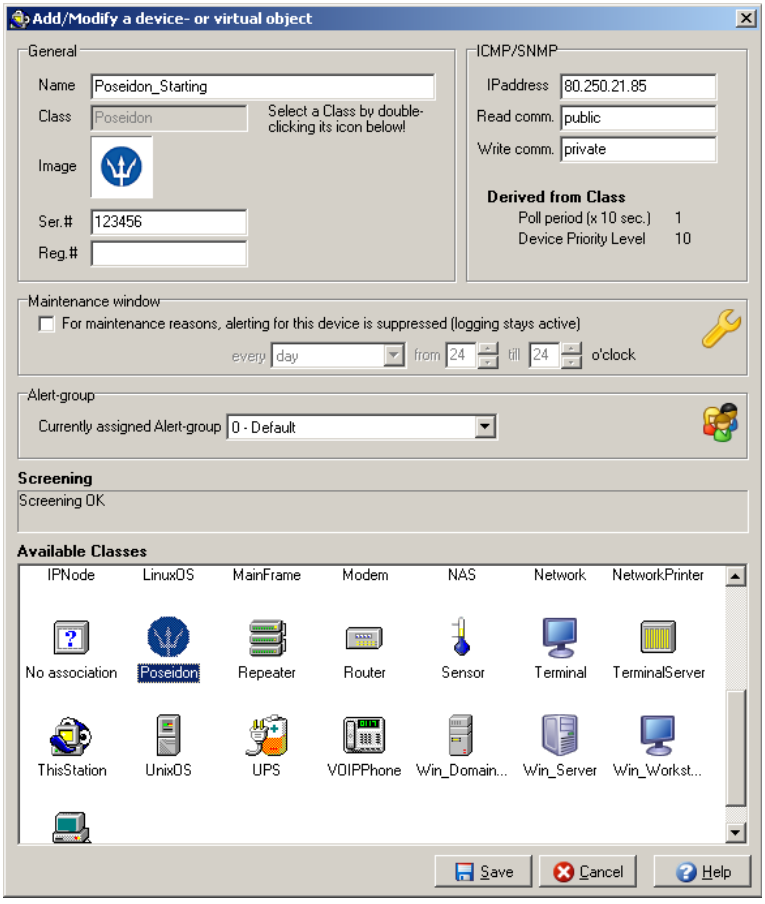
# Creating a new project

After launching M1 – Monitor one, create a new project and add a Poseidon unit to the project.

## Adding a Poseidon unit to M1 manually

A Poseidon unit can be added to the newly created project by inserting its IP address.

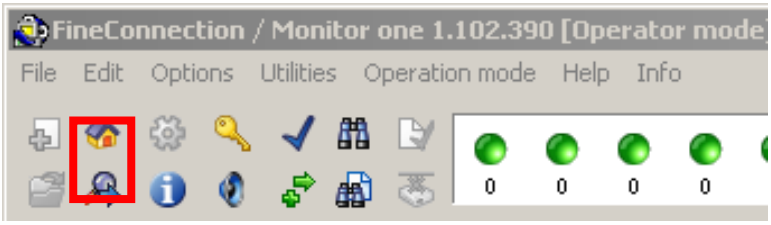
- Open the "**Add/Modify a device or a virtual object**" pop-up menu by right-clicking the work area.
- In the dialog box, fill in the values according to the picture. Caution – you must double-click the Poseidon icon to select it.
- Click to place the resulting icon on the work area.



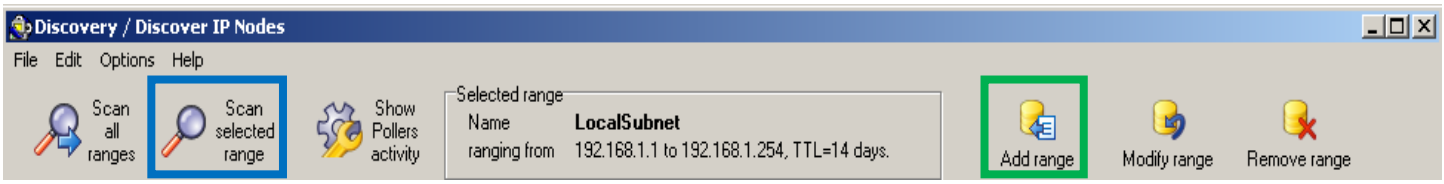

## Automatic network discovery

Another way to add a Poseidon unit to M1 is to perform network discovery.

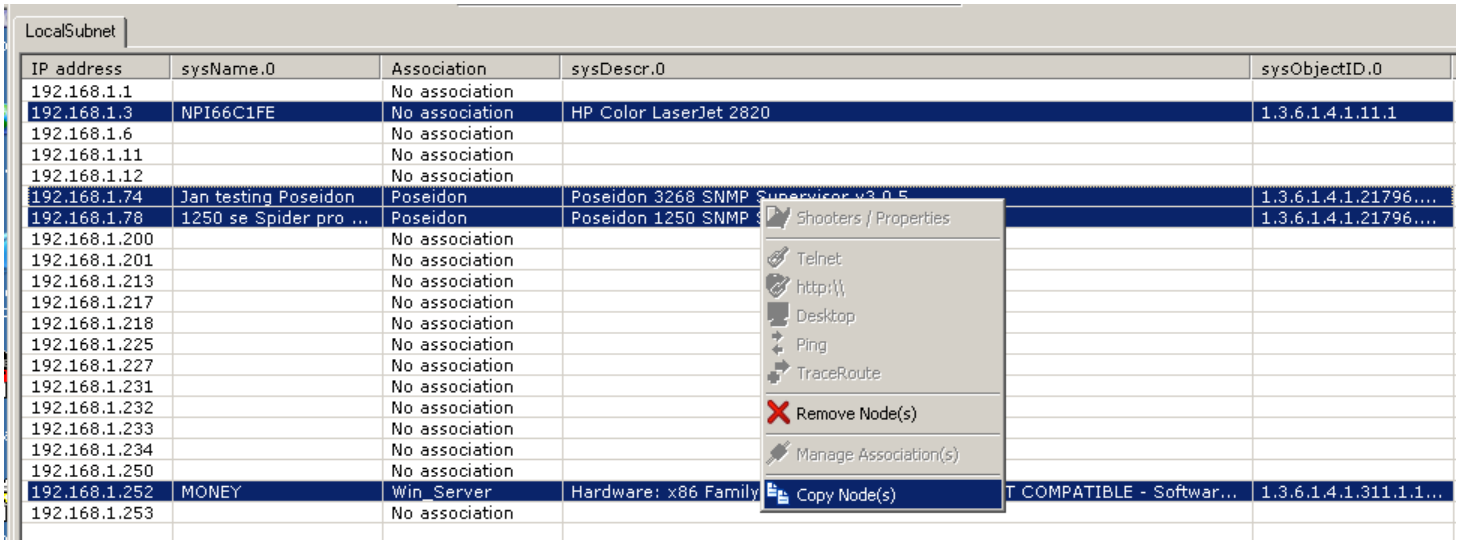
By default, M1 searches a "C" network.



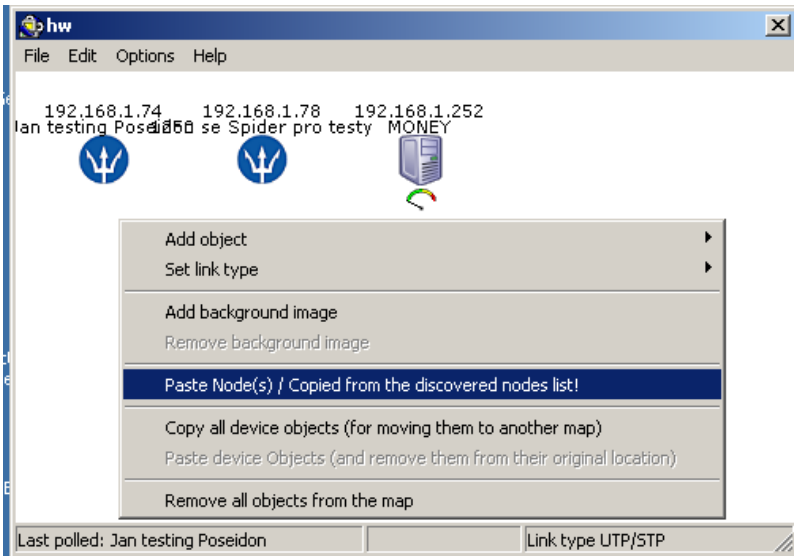

- Click the Discovery icon (magnifying glass + arrow) on the M1 main panel.
- A dialog window opens and the discovery of devices connected to your network starts. If nothing happens, you either need to change your firewall settings, or you are not in a "C" network. In this case, perform the following steps:
  - Change the manual settings for the searched network: Click the "**Add Range**" icon (green box). In the following dialog, enter your network name and parameters.
  - Start network discovery by clicking the "**Scan selected range**" icon (blue box).



- Select the discovered devices and right-click one of them. In the menu, choose "**Copy Node(s)**".

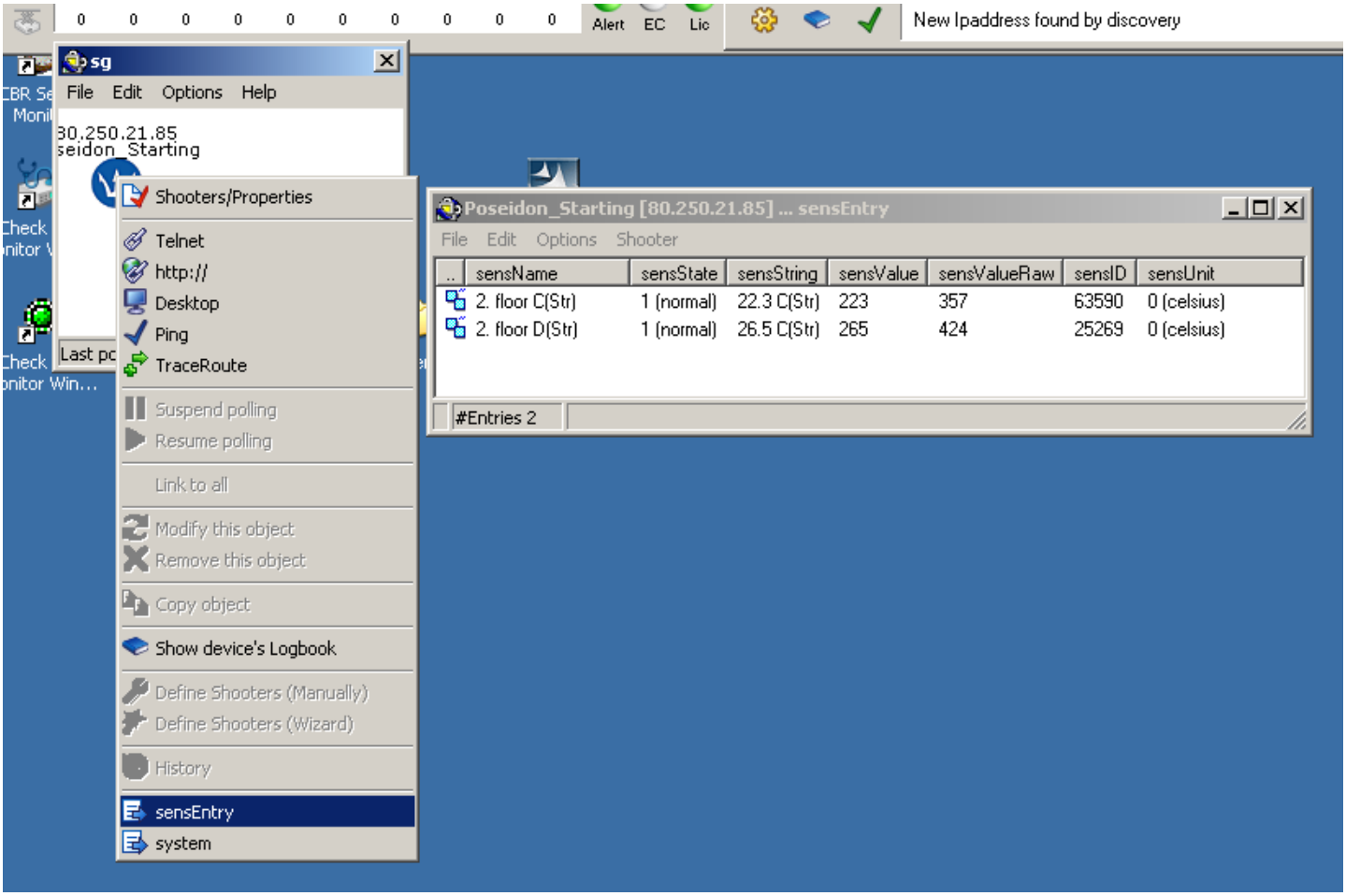



- Insert objects to Monitor one by right-clicking the map area and selecting "**Paste Node(s)…**".



## Basic overview of the readings

To display the basic Poseidon readings, simply right-click its icon and select "**sensTable**" in the pop-up menu.



# What is a Shooter

*A Shooter is a periodically executed request to retrieve a value with a method of processing the response. The settings of each Shooter specify what to request, how often, and how to evaluate the reply.*

## Automatic alarm

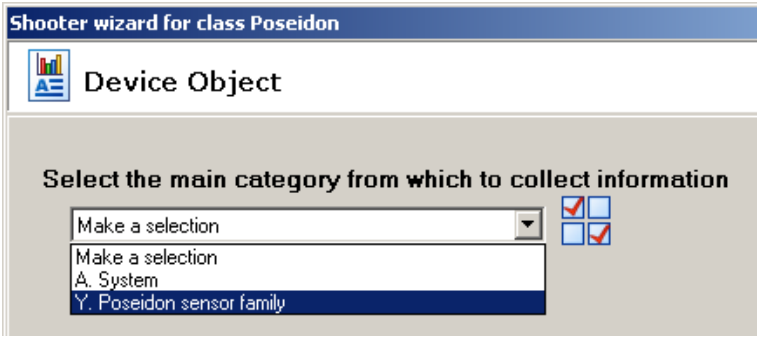
M1 automatically detects the alarm state of a Poseidon unit (defined using a **SafeRange** in the Poseidon setup). To change this behavior, you must change the alarm state configuration in the Poseidon unit itself.


Another option is to deactivate the Shooter that monitors these states in Monitor one.

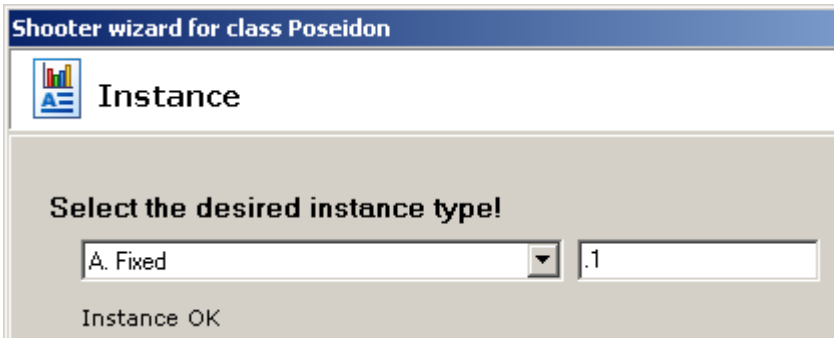
## Concise display of current temperature (SnipMon)

The SnipMon gauge Shooter is intended for a quick display of the current temperature in a small icon right below the device icon.

To create a SnipMon, right-click the Poseidon icon and select "**Define Shooter (Wizard)**" in the menu.




- In the wizard, enter the "**Device Object**" screen and select the "**Y. Poseidon sensor family**" from the list.
- The following screen offers a range of Shooters. Select "**V. Show sensor's current value**".
- In the next window, select "**SnipMon gauge Shooter**" and proceed to the dialog for configuring polling period. Then, proceed to select the instance to monitor.



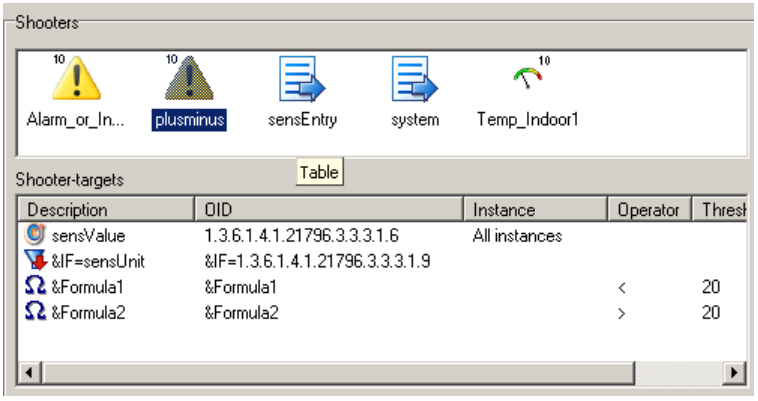

- Select "**A. Fixed**". In the input field, enter the number of the sensor to monitor (the table created in the previous step may help you – usually, it is ".1" for the first sensor).
- Enter the Shooter name and proceed all the way to the last dialog. There, select "**B. Start the new Shooter for Right-clicked device**". The Shooter is activated right away.

## Raising an alarm if the temperature deviates by ±5°C from a specified value

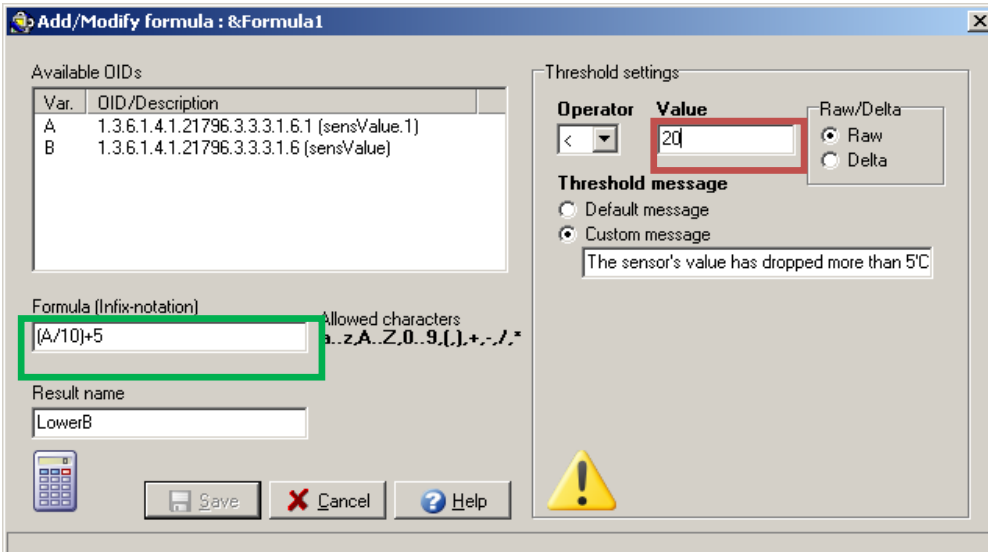
This Shooter is suitable for monitoring a certain temperature and raising an alarm, should the temperature differ from a specified value.

- The procedure is similar to the previous one, up to the "**Poseidon sensor family**" screen. There, select "**S. Detect whether a sensor's value…**".


- In the following screens, select "**F. Threshold Shooter**" and set the polling interval.
- Choose whether you want to monitor only a specific sensor ("**A. Fixed**", fill in sensor number), or all sensors ("**C. All instances**").
  Finally, fill in the name and activate the Shooter.




- In the basic configuration, the monitored temperature is set to 0°C.
  To change the value, right-click the Poseidon icon and select "**Define Shooter (manually)**".
  - In the following screen, find your Shooter in the lower right-hand area ("**Shooters**") and select it. The Shooter settings appear in the bottom panel ("**Shooter-targets**").
  - Right-click the "**&Formula1**" line and select "**Modify this Shooter target**".
  - In the next window, overwrite the value of **0** (red rectangle in the figure) with your desired value (in °C).
  - Follow the same steps for the "**&Formula2**" line.




*Note: If you want to change the tolerance (±5°C), you can simply change the value of 5 in the "**Formula**" part (green rectangle), too.*

## More Shooters

M1 comes with more predefined Shooters. The most frequently used ones include raising an alarm if the measured value deviates by ±10%, raising an alarm if a device is in alarm (by the way, Poseidon can react to alarms autonomously without any other software), or logging historic values with trending. To try them out, use the "**Define Shooter (Wizard)**" option in the Poseidon pop-up menu.

An interesting and powerful feature is the ability to calculate a value that will enter further processing (alarms, logging, etc.) using a mathematic expression. This is useful for monitoring average temperatures from multiple sensors, etc.

# More information about M1

For more information and guides, visit the HW group website or the FineConnection (authors of M1) website:

- Detailed instructions to create your own Shooters (http://www.fineconnection.com/How_to_set_up_a_temperature_monitoring_system_with_Monitor_one_and_a_Poseidon_3262_temperature_sensor).
- How to set up a "horn": http://www.hw-group.com/support/an31/index_en.html.