

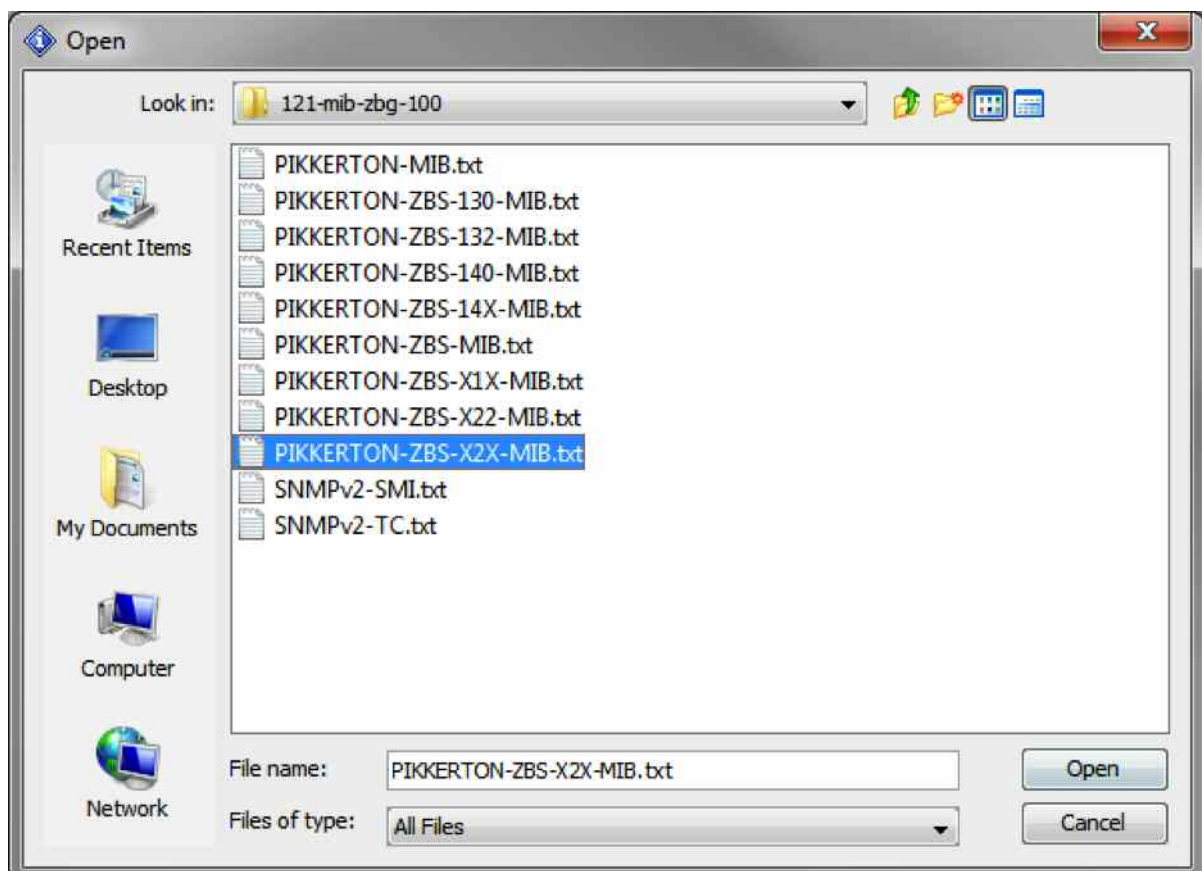
# Pikkerton Zigbee and AKCess Pro securityProbe virtual sensor Configuration



Abb: securityProbe5ESV & ZigBee Multisensor from Pikkerton

## How to get the OID

1. Load PikkertonMIB modules of sensors to iReasoning MIB Browser. You do not need to load every module from Pikkerton. For example, you are using ZBS-121 Zigbee Multi Sensor. You can load only PIKKERTON-ZBS-X2X-MIB.txt



2. Locate the OID of sensor value. The OID of sensor value is in `pikkerton>pikZbs>commonZbsDevices>specificSensors>[device model]sens> [device model]measureTable> [device model]measureEntry`.

3. Click the item that you would like to read. Name, OID and description are shown in the bottom window.

Name	vX2XmeasTEM
OID	.1.3.6.1.4.1.23596.50.2.21.2.2.1.5
MIB	PIKERTON-ZBS-X2X-MIB
Syntax	DISPLAYSTRING
Access	read-only
Status	current
DefVal	
Indexes	vX2XmeasDeviceMAC
Descr	Temperature in [degrees] with decimal point ===== Parameter Info ===== Datatype:float Range:0.0..50.0 default:0.0 Access:read-only =====

Figure: Choose the OID file

4. After you get OID from MIB browser, you need to add MAC address of the device to this OID. The format is OID.16.[16-character MAC in ASCII]. For example, the OID of temperature is .1.3.6.1.4.1.23596.50.2.21.2.2.1.5 and the MAC address of ZBS-121 Zigbee Multi Sensor is 0013a200408a8c3a. Then, the combined OID is

.1.3.6.1.4.1.23596.50.2.21.2.2.1.5.16.48.48.49.51.97.50.48.48.52.48.56.97.56.99.51.97

You can add this OID to the virtual sensor in SEC in order to read the temperature.

# How to create a virtual sensor to read a Pikkerton device

1. Go to virtual sensors page. Click any virtual sensor port you would like to setup.



Figure: Here you see the 80 virtual sensors of the AKCP der securityProbe

2. Click "Configuration" button. Then, select "Custom Script" and click "Next". The script parameters appear.

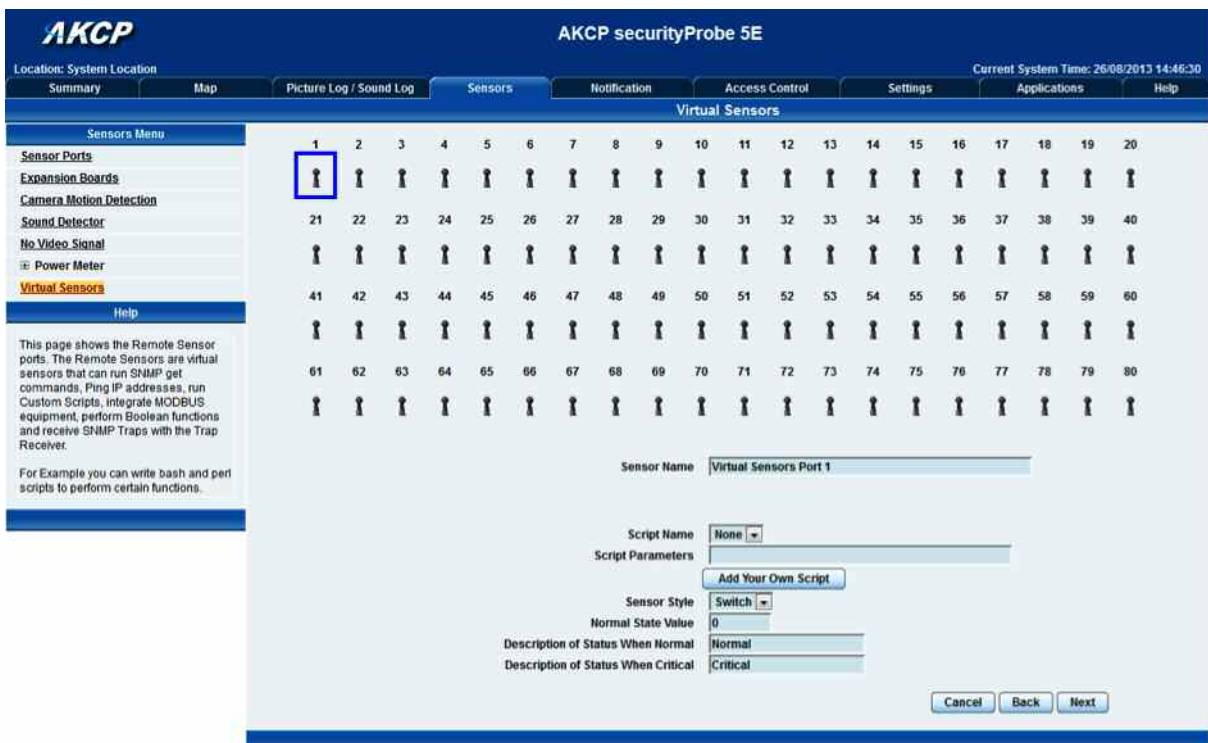


Figure: Configure the virtual sensors

3. Click "Add Your Own Script" button. The new window appears.

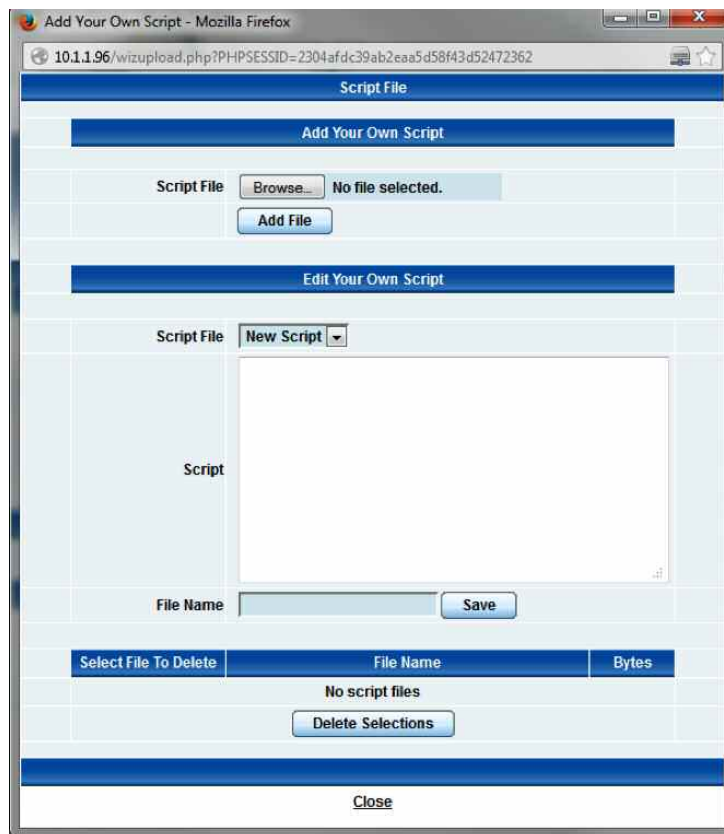


Figure: Virtual sensor configuration

4. In script text box, please insert this script:

```
#!/bin/sh
snmpget -v 1 -Oqv -c public [IP][OID] | sed 's//g' | awk '{ printf("%d\n", $1*10 )}'
```

Please change [IP] to the IP of PikkertonZigbee Gateway and [OID] to the OID which you get from previous chapter. For example, read temperature from ZBS-121 Zigbee Multi Sensor. Its IP is 10.1.1.92.

```
#!/bin/sh
snmpget -v 1 -Oqv -c public 10.1.1.92 .1.3.6.1.4.1.23596.50.2.21.2.2.1.5.16.48.48.49.51.97.50.48.48.52.48.56.97.56.99.51.97 | sed 's//g' | awk '{ printf("%d\n", $1*10 )}'
```

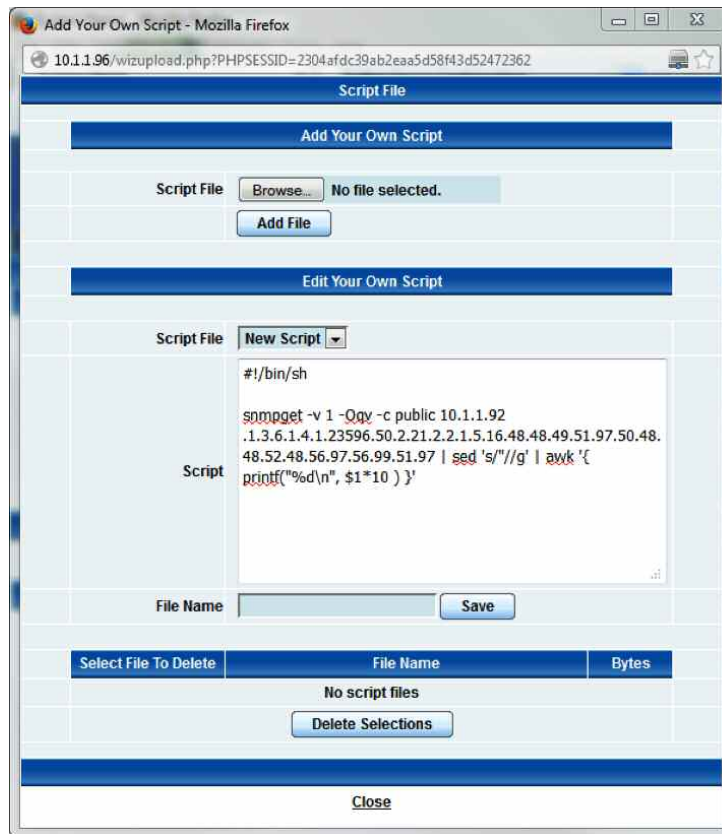


Figure: Insert the script into the box of the Web Gui

5. Enter the file name and click "Save". Then, close this window.

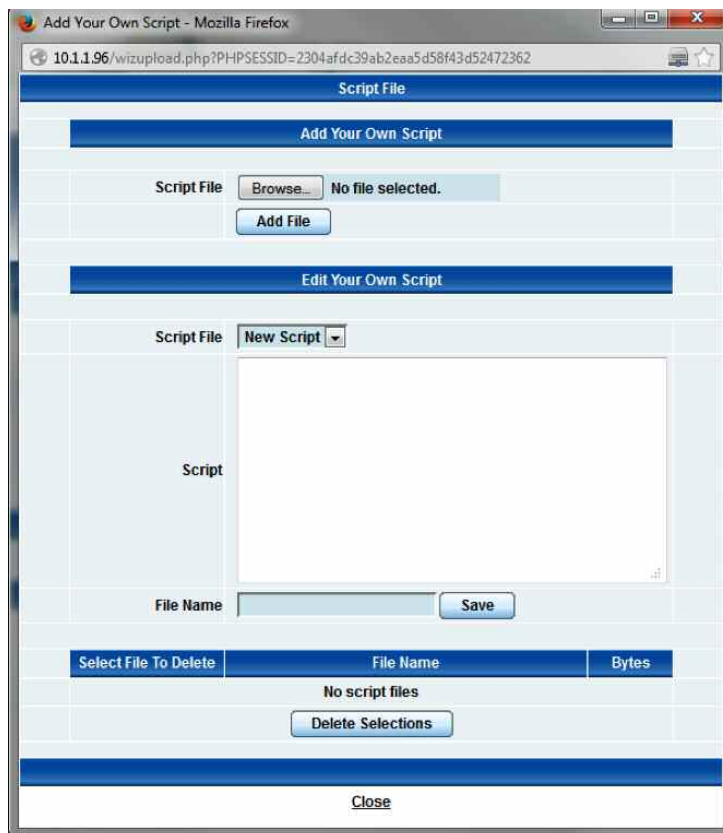


Figure: Save the script in the Web Gui

6. In script name parameter, choose your script that you add. Leave script parameter blank. Change sensor style to "Analog". You can change the rest parameters as you desire. Then, click "Next". Note that we multiply 10 in the script and set value factor to 10 in order to get a decimal number.

Figure: Configure the virtual Sensor Port

7. Select the threshold value and click "Next".

Figure: Example of threshold values

8. Enter polling interval, execute time out and retry. Click "Finish".

Abb: Example of Polling Interval's

9. The security probe can read the sensor value from Pikkerton device

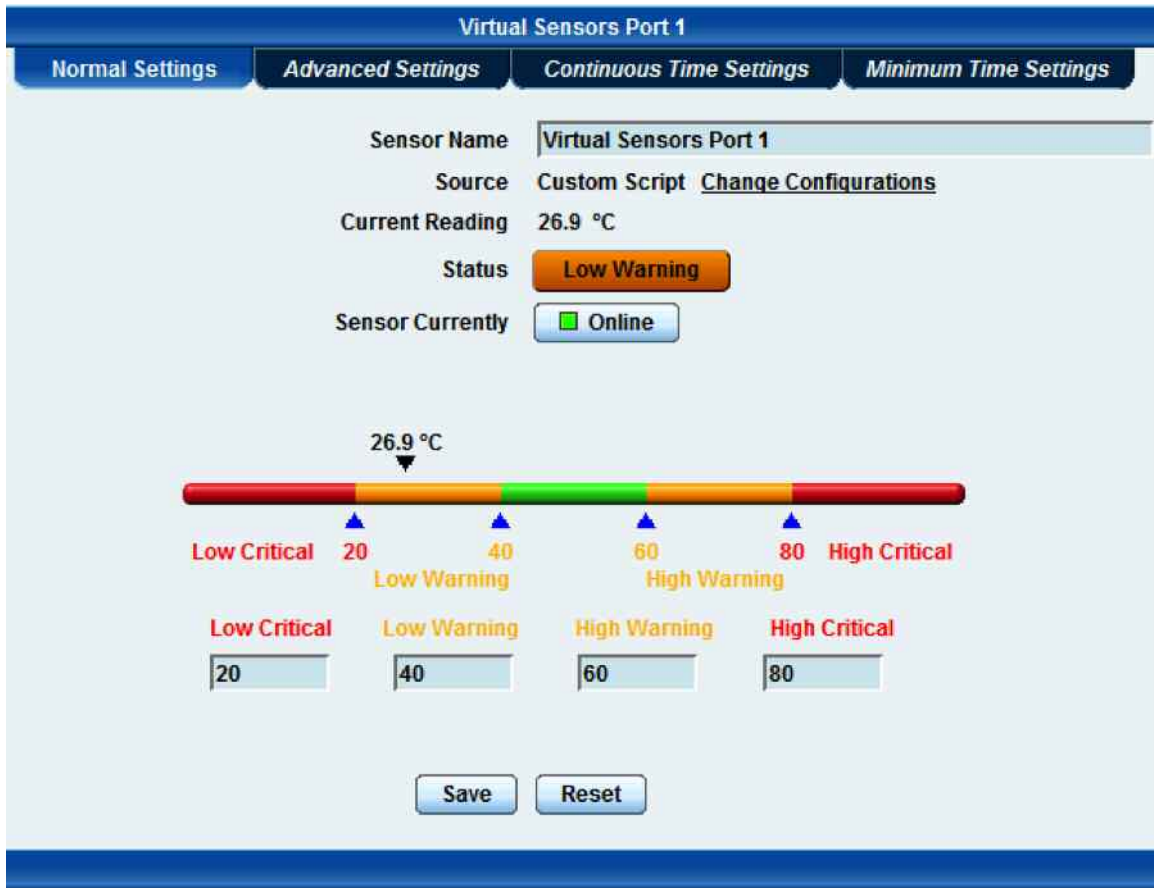


Figure: Status of a virtual Sensor in the Web Gui