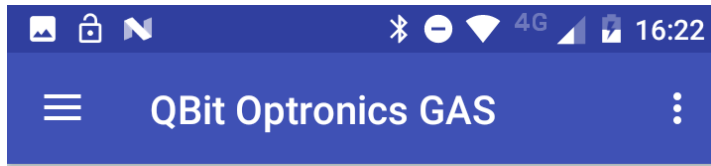


# QBit-Optronics GAS APP

Ver. 1.0.1 for Android 6+



QBit



S.N.



Scale settings

Gas #1		
Name:	a1	Molecular weight
R134	1.0	102.0

gr/y  
 10<sup>-6</sup> cc/s  
 PPM

Gas #2		
Name:	a2	Molecular weight
R404	1.0	97.6

gr/y  
 10<sup>-6</sup> cc/s  
 PPM

Gas #3		
Name:	a3	Molecular weight
R407	1.0	86.2

gr/y  
 10<sup>-6</sup> cc/s  
 PPM

Gas #4		
Name:	a4	Molecular weight
R410	1.0	72.6

# Qbit S.r.l.

Instruments for Environmental measures

[www.qbit-optronics.com](http://www.qbit-optronics.com)

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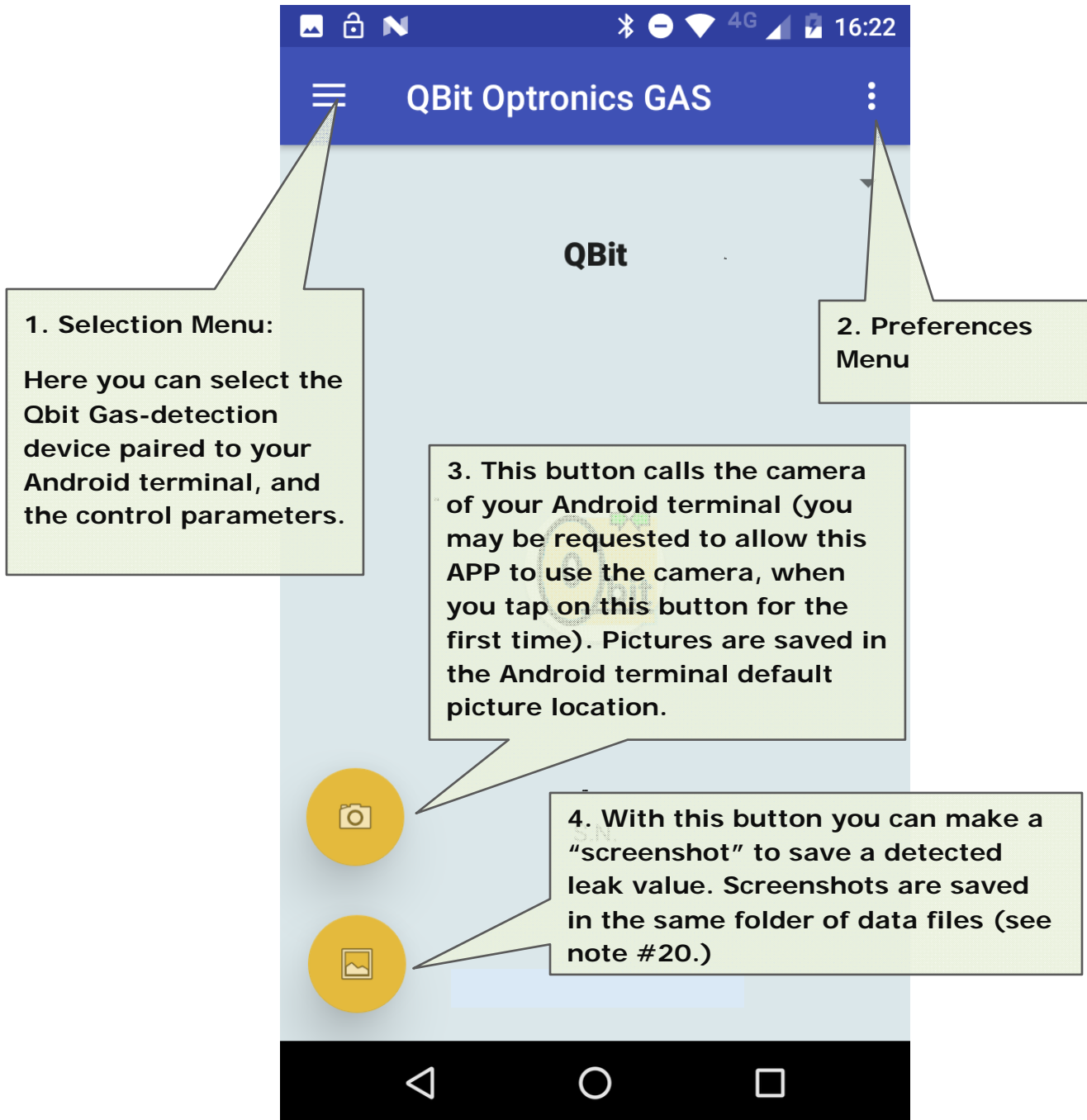
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# Qbit-Optronics Leak-detection APP (for Android devices)



## CONNECTING TO A QBIT DEVICE

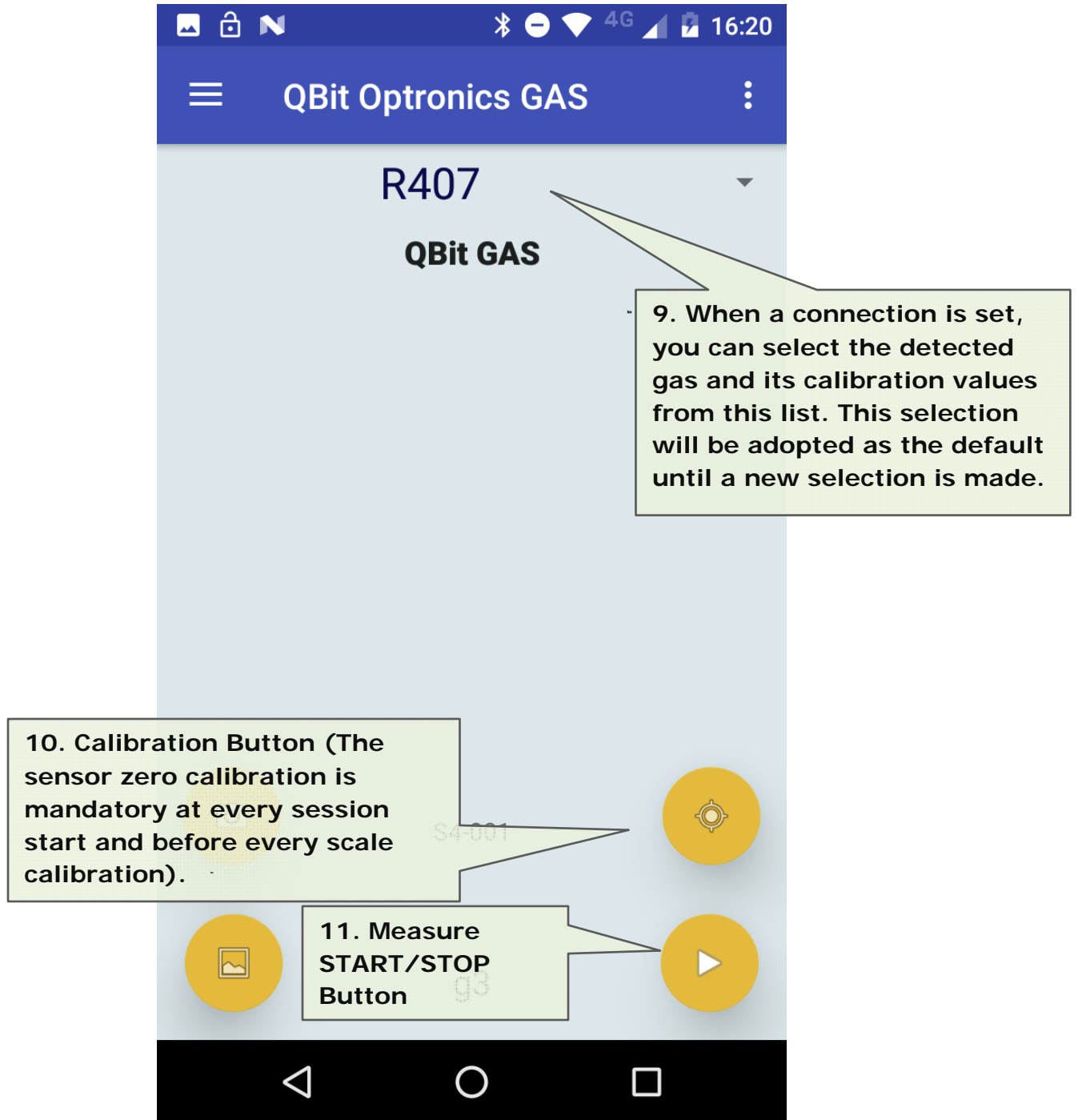
**5. Selection of a Qbit GAS measuring device from the list of Bluetooth devices paired to your Android terminal (see note #8). The Qbit GAS device must be on and in the range of the Bluetooth connection. Please remember to make the device "Pairing" to the Android terminal (in the Android Bluetooth settings section) the first time you use it.**

**6. In this section you may set the parameters of the gases you want to measure (such as gas name, molecular weight, scale factor, unit of measurement). Parameters have a default value but you can change them. To change the parameters you must be connected to one Qbit GAS device (see note #5).**

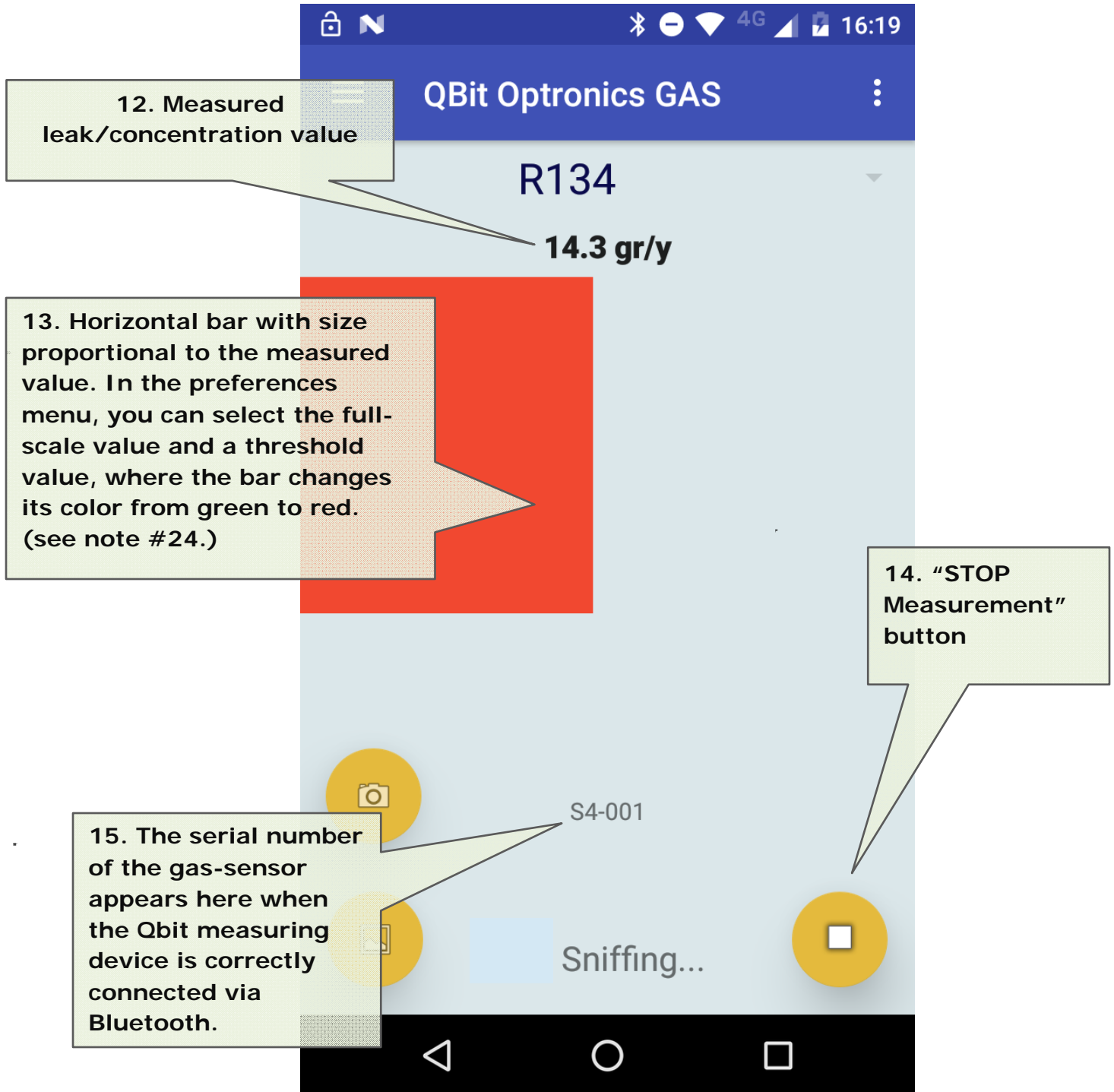
**7. Procedure to determine the correct gas measurement scale factor  $a$  making use of a calibrated leak (see note #16).**

**8. This is a list of the Bluetooth devices paired to your Android terminal. You have to select your Qbit device here. With a long tap on the device name you can edit it to recognize it better .**

## ONCE THE CONNECTION TO A QBIT DEVICE IS SET



## GAS DETECTION



## GAS PARAMETERS

**Scale settings**

**Gas #1**

Name:	a1
R134	1.0

gr/y  
 10<sup>-6</sup> cc/s  
 PPM

---

**Gas #2**

Name:	a2	Molecular weight
R404	1.0	97.6

gr/y  
 10<sup>-6</sup> cc/s  
 PPM

---

**Gas #3**

Name:	a3	Molecular weight
R407	1.0	86.2


gr/y  
 10<sup>-6</sup> cc/s  
 PPM


---

**Gas #4**

Name:	a4	Molecular weight
R410	1.0	72.6

gr/y  
 10<sup>-6</sup> cc/s  
 PPM



16. This APP supports five different gas types. In this panel that you can access from the  menu (see note #6.) you can specify the gas name, its own scale factor, its molecular weight, and the unit of the measure you want to display. The gas name you indicate here will appear in the gas selection list described in the note #9.

The scale factor  $a$  can be set here or automatically determined following the instructions of the procedure described in the note #7.

17. Save new settings tapping here

# PREFERENCES

The screenshot shows the preferences menu of the QBit Optronics GAS app. The settings are as follows:

- Save data to a file in Documents:** Toggle is ON.
- Keep the screen active:** Toggle is ON.
- Remember last device:** Toggle is ON.
- High resolution measurement (h):** Slider is set to the high position.
- Sensor calibrated in:** Radio buttons for PPM (selected) and gr/y.
- Acoustic alarm and vibration:** Toggle is ON.
- Alarm threshold:** Value is 10.
- Activate bar full scale:** Toggle is ON.
- Full-scale:** Value is 30.
- Landscape view:** Toggle is ON. Below it, the text reads "To apply the option restart the APP".

Numbered callouts provide instructions for each setting:

- From preferences Menu (see note #2) you can access the following panel and ...
- ...select/deselect saving of all measurements on a log file (text format) in the QBIT\_DATA-GAS folder that will be automatically created in the DOCUMENTS folder of your Android device.
- ...keep the Android terminal on while the APP is active
- ...keep memory of the last connected device (see note #27).
- ...select high/low resolution measurements (low resolution measurements are faster).
- ...specify unit of measure of the sensor calibration
- ...specify a full-scale value different from the default (= 100).
- ...activate an acoustic alarm and set its threshold. This is also the threshold for the bar color change. (see note #13).
- ...set the horizontal screen setting. You need to re-start the APP to apply this option.



## LAST CONNECTED DEVICE (DEFAULT SETTING)

27. When the “maintain” option described in note #20 is selected, this connection button appears at the screen center. It enables an immediate connection to the last Qbit device connected by the App on this Android terminal. The name of the device is indicated below (as described in note #28). You can always select a different device from the “selection Menu” (as described in note #5).

28. Name of the last Device connected.

## ERROR MESSAGES

<b>Message</b>	<b>Action</b>
Low level H.W. fault.	Contact factory
Very low Infrared signal.	Contact factory
Infrared detector signal is too low (measurements can be performed anyway).	Sensor is still working. Please repeat one reset cycle. If the problem persists sensor needs revision.
Calibration took place in a polluted environment or was performed too long ago.	Perform a new calibration cycle in a clean air.
Measurements performed without a calibration	Perform a new calibration cycle.