

# Velleman HPG1MK2 - User manual and info

Call Us 1.877.571.7901



### **INFO**

#### **Features:**

- DDS type generator (Direct Digital Synthesis)
- sweep function with bi-direction option
- OLED screen
- operates on 4 x 1.5V AAA batteries (not included)
- signature white back casing

## **Specifications:**

- DAC resolutions: 10 bits
- frequency range: from 1 Hz to 1.000.000 Hz ( $\pm 0.01$  %)
- frequency steps: 1 Hz, 10 Hz, 100 Hz, 1 kHz and 10 kHz
- waveforms: sine, square and triangle
- output voltage: max. 8 Vpp
- real output level measurement: dBm / Vrms or Vpp readout (± 3 %)
- typical sine wave distortion (THD): < 0.1% (a) 1 kHz / 0dB / 600 Ohm
- square wave rise/fall time: typ. 0.2 μs
- output impedance: 50 Ohm
- dimensions: 114 x 68 x 22mm / 4.48 x 2.67 x 0.86"
- power consumption: 70 mA max
- battery life: about 15 hours on quality alkaline batteries

## What's in the box

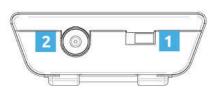
- handheld pocket generator getting started manual
- BNC male to RCA female
- BNC male to 2x4mm banana plug

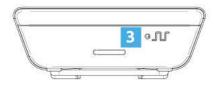
# **Option:**

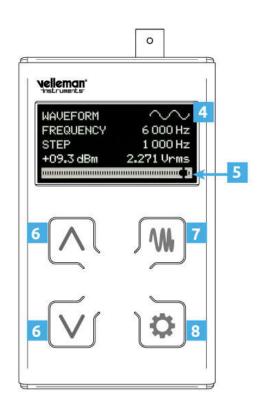


Optional Velleman instruments protective pouch (HPSP1)

## **CONNECTIONS AND CONTROLS**



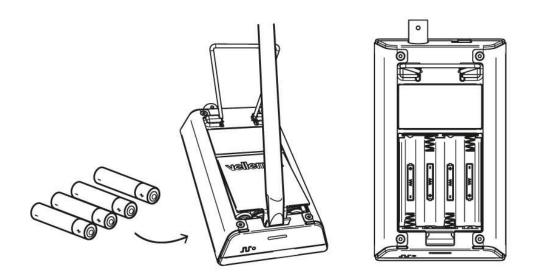




- 1. on/Off switch
- 2. BNC output connector
- 3. calibration output
- 4. signal and menu display
- 5. output level indicator
- 6. up and down set buttons
- 7. menu button / menu selection up
- 8. settings menu button / menu selection down

# **CHANGING THE BATTERIES**

Use 4 x AAA 1,5V batteries and note the polarity!



## **FUNCTION GENERATOR SETUP**

Access the setup menu by keeping the settings button pressed in.



## You can:

- change the user interface language
- adjust the display contrast or reverse the display (white with black dots)
- change the way the frequency is changed if you keep the up/down button pressed (Log. will make the frequency change faster)
- start or Stop the DEMO mode (useful for demonstration or testing)
- press and hold the **setting menu button (8)** or the **menu button (7)** to leave the menu and store the settings

### **WAVEFORM MENU**

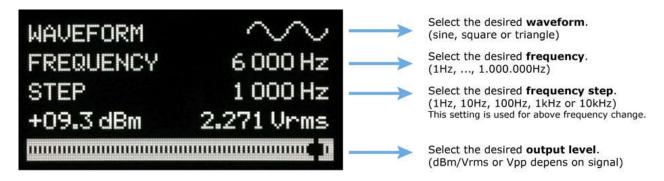


This view is shown when **sweep** is off (check the next chapter).

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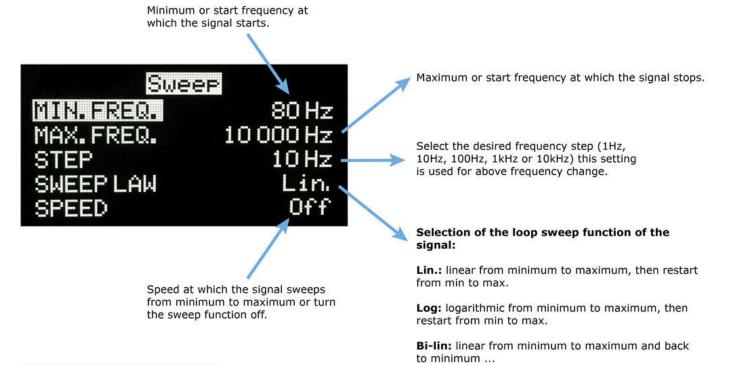
Bi-log: logarithmic from minimum to maximum and

back to minimum ...



### **SWEEP MENU**

A sweep generator generates a frequency which changes with respect to time and is a practical device for recording frequency characteristics, or to make automated measurements.





Waveform screen if **Sweep** is on. (inverse)