

• Description

This formaldehyde (CH₂O) sensor calibrator is designed for calibration and bump test of CH₂O gas detectors or sensors. It can be used in the laboratory and is also convenient to be used in the field. This device consists of a CH₂O gas carrier, an equilibrium gas chamber, an on-off valve, and a LCD display. It is reliable and easy to operate.

• Main Features

The CH₂O gas carrier exchanges (either desorbs or absorbs) the CH₂O gas in the equilibrium gas chamber based on the ambient temperature. Under a given temperature, the concentration of the CH₂O gas in the chamber is constant and shown on the LCD display. Not like a traditional gas detector or sensor calibration system, this device eliminates tubes, valves, regulators, and other mechanisms required for calibration. Therefore, it provides not only the convenience of use but also better and trustable accuracy of the CH₂O gas concentration.

• Performance Characteristics

Concentration range(CH ₂ O):	2 ~ 20 ppm
Accuracy:	+/-15%

• Environmental

Temperature Range:	10°C ~ 30°C
Pressure Range:	1 ± 0.1 atm
Humidity Range:	15% ~ 90%RH non-condensing

• Life Time

Recommended Storage Temp:	10°C ~ 30°C
Expected Operating Life:	6 months or 200 times(Whichever occurs first)

• Physical Characteristics

Housing Material:	Housing PP+ upper cover PA66
Weight (Nominal):	220 g

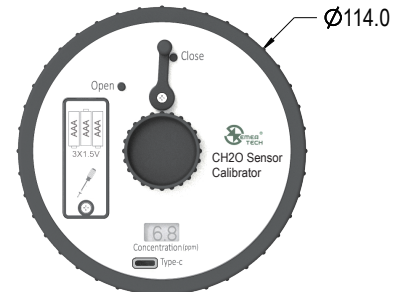
• Operating Instructions

Before starting calibration or bump test, the CH₂O sensor calibrator needs 30 minutes or longer to be initialized in the environment where the calibration or pump test will be conducted. During this process, the temperature of the CH₂O sensor calibrator will gradually match the ambient temperature until the LCD readout is stable (the best accuracy of the CH₂O gas concentration is achieved). After initialization, please follow the steps below to conduct calibration or bump test.

- 1) Turn the toggle switch to the OFF position.
- 2) Unscrew the sealing cap, connect the sensor to the valve, and then turn the toggle switch to ON position to start calibration or bump test.
- 3) After completing calibration or bump test, turn the toggle switch to OFF position and then pull out the sensor.
- 4) Place the sealing cap back and then tighten it for next use.

Website: www.semeatech.com
 E-mail: info_us@semeatech.com

• Product Dimensions



All dimensions in mm
 All tolerances ±0.30mm unless otherwise stated

• Power Supply Modes

There are two power supply modes for this device. Mode 1#: Install 3 AAA batteries in battery compartment to power the device. Mode 2#: Connect the device to DC 5V with a USB cable if AAA batteries are not installed.

• Note

Handle the device gently after taking it out of the storage location. Don't shake it violently so as not to affect the accuracy of the test. In addition, tighten the sealing cap as soon as possible after calibration. Please contact us for more questions.