MB Systemtechnik
www.mb-systemtechnik.de

MB– Systemtechnik
Lütticher Straße 132
40547 Düsseldorf

Tel: 0211-92412575
info@mb-systemtechnik.de

Datasheet: VOC Measuring device (Art. Nr.: VOC M 100)

Description:

The VOC content is displayed on a digital display. In addition, the device has a switching output for connecting external devices. The device is designed for wall mounting.
VOC contains among others:
Terpenes, alcohols, carbonyls, etc.
These are substances that are generated by the evaporation of furniture, varnish, flooring, etc.,
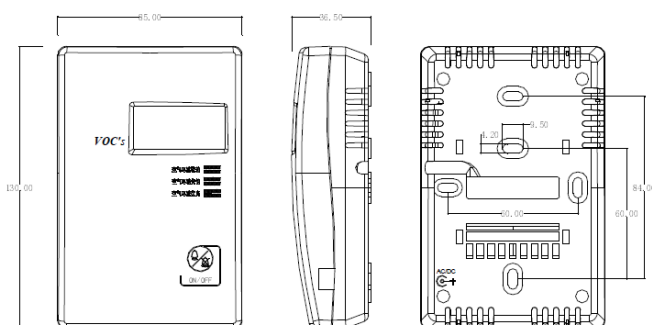
Technical data	VOC M 100 (Wall and Table device)	
Measured value	VOC , T (Temperature) rH (Rel. Humid)	
Supply voltage	9- 24 VDC/VAC	
Consumption	2,8 W (max.)	
Ready for use after	72 hours (first commissioning)	10 Minutes (regular)
Measuring interval	1 Second	
Measuring range	0-30 ppm	
Resolution display	0,1 ppm	
LCD Background	Green	Optimal air quality
	Yellow	Moderate air quality
	Red	Insufficient air quality
Sound Alarm	VOC measured value over 22 ppm	
Temperature measuring range	-20 °C - 60 °C	
Rel. humidity measuring range	5-99 % rH	
Ambient temperature	0°C –60 °C	
Perm. rel. ambient humidity	0-95% non condensing	
Dimensions	130 mm(H) x 85 mm (B) x 36,5 mm (T)	

Technical changes reserved

MB Systemtechnik
www.mb-systemtechnik.de

MB– Systemtechnik
Lütticher Straße 132
40547 Düsseldorf

Tel: 0211-92412575
info@mb-systemtechnik.de

Description: VOC measuring instrument (Art. No.: VOC M 100)

- Real-time display of air quality (VOC) with alarm
- Highly sensitive to VOC and other indoor gas components
- Display of temperature and rel. humidity
- 3 colors display and alarm signal
- High quality, long term stable, CE marked

Functions:

- Real time measurement of air quality
- Semiconductor sensor with min. 5 years long term stability
- Gas detection: Cigarette smoke, VOC's- Formaldehyde and Toluene, Ethanol,
- Ammonia, Hydrogen Sulfide, Sulfur Dioxide and other harmful gases.
- 3 colors display (green, yellow, red)
- Temperature and humidity measurement and display
- Preset alarm
- High quality standard, applicable for industrial and household use
- 24VAC/VDC power supply
- Can be used as a wall-mounted or table-top unit
- CE marking

Application:

The device is suitable for measuring the overall air quality. In addition to the temperature and rel. humidity, the VOC content is displayed. The monitoring of air quality is an important component for a pleasant working and living. Air pollution caused by paint coats, evaporation from floors, walls and furniture are mostly odorless gases, but they have harmful properties for human health.
The main application of the device is to monitor the indoor and outdoor air in which we humans move, such as offices, classrooms, etc.
The VOC meter is specially designed to measure the air quality and quickly provide the user with information about the existing air quality via the LCD display.

Systemtechnik
www.mb-systemtechnik.de

MB– Systemtechnik
Lütticher Straße 132
40547 Düsseldorf

Tel: 0211-92412575
info@mb-systemtechnik.de

Description: VOC measuring instrument (Art. No.: VOC M 100)

### Beschreibung der Display Funktion:

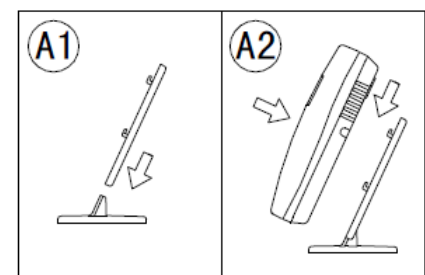| LCD- Display	Alarm
ON	Akctive
OFF	Inactive

On/Off for the Auto function means activation of the acoustic signal.
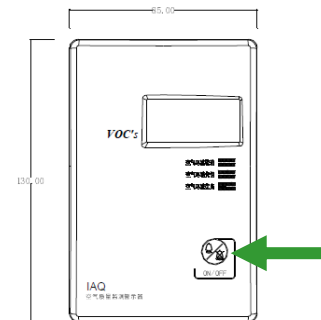
Description for wall fixing :

When mounting the unit on the wall, make sure that the installation height is
the installation height is approx. 1.2m-1.3m. The electrical supply is provided via the enclosed power supply unit
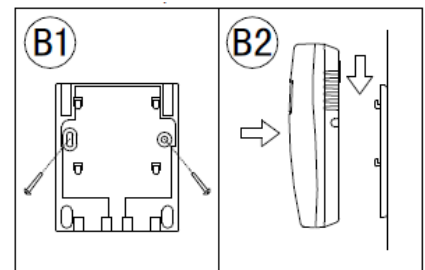
Description for stand mounting:

If the device is used as a table-top unit, the device is mounted on the table-top stand included in the scope of delivery. The electrical connection is made via the enclosed power supply unit

MB **Systemtechnik**
www.mb-systemtechnik.de

MB– Systemtechnik
Lütticher Straße 132
40547 Düsseldorf

Tel: 0211-92412575
info@mb-systemtechnik.de

Description: Calibration VOC measuring device (Art. No.: VOC M 100)

Description of the calibration procedure

Before you perform a calibration, the measuring instrument should be in operation for at least 10 minutes.
Make sure that unpolluted fresh air is available during calibration, e.g. in front of an open window.
During calibration, the measuring instrument must remain switched on ready for operation.

Procedure

I. Open the device by pressing lightly on the front half of the housing.
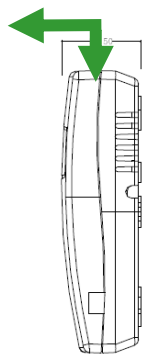II. on the circuit board there is a pushbutton with the designation S1.
Press this push button for about 25 seconds, a beep will sound during this time.
IV.   After the beep stops, the sensor is recalibrated.
       The reading on the display is 5.5 ppm.
The calibration is completed, the device can now be assembled.

I.

Open the measuring device by pressing lightly on the front half of the housing

pre-housing with circuit

II.

Pushbutton S1
for 25 seconds
hold down.