

# User Manual

PCE-VOC 1 Environmental Meter



User manuals in various languages (français, italiano, español, português, nederlands, türk, polski, русский, 中文) can be found by using our product search on: [www.pce-instruments.com](http://www.pce-instruments.com)

Last change: 2 October 2018  
v1.0



## Contents

1	Safety notes .....	1
2	Introduction .....	2
3	Features .....	2
4	Front Panel Description .....	2
5	Display .....	3
6	Specifications .....	4
7	On / Off .....	4
8	Auto power off .....	4
9	Operation .....	4
10	Alarm .....	4
11	Set / Unit keys.....	4
12	Contact.....	5
13	Disposal .....	5

## 1 Safety notes

Please read this manual carefully and completely before you use the device for the first time. The device may only be used by qualified personnel and repaired by PCE Instruments personnel. Damage or injuries caused by non-observance of the manual are excluded from our liability and not covered by our warranty.

- The device must only be used as described in this instruction manual. If used otherwise, this can cause dangerous situations for the user and damage to the meter.
- The instrument may only be used if the environmental conditions (temperature, relative humidity, ...) are within the ranges stated in the technical specifications. Do not expose the device to extreme temperatures, direct sunlight, extreme humidity or moisture.
- Do not expose the device to shocks or strong vibrations.
- The case should only be opened by qualified PCE Instruments personnel.
- Never use the instrument when your hands are wet.
- You must not make any technical changes to the device.
- The appliance should only be cleaned with a damp cloth. Use only pH-neutral cleaner, no abrasives or solvents.
- The device must only be used with accessories from PCE Instruments or equivalent.
- Before each use, inspect the case for visible damage. If any damage is visible, do not use the device.
- Do not use the instrument in explosive atmospheres.
- The measurement range as stated in the specifications must not be exceeded under any circumstances.
- Non-observance of the safety notes can cause damage to the device and injuries to the user.

We do not assume liability for printing errors or any other mistakes in this manual.

We expressly point to our general guarantee terms which can be found in our general terms of business.

If you have any questions please contact PCE Instruments. The contact details can be found at the end of this manual.



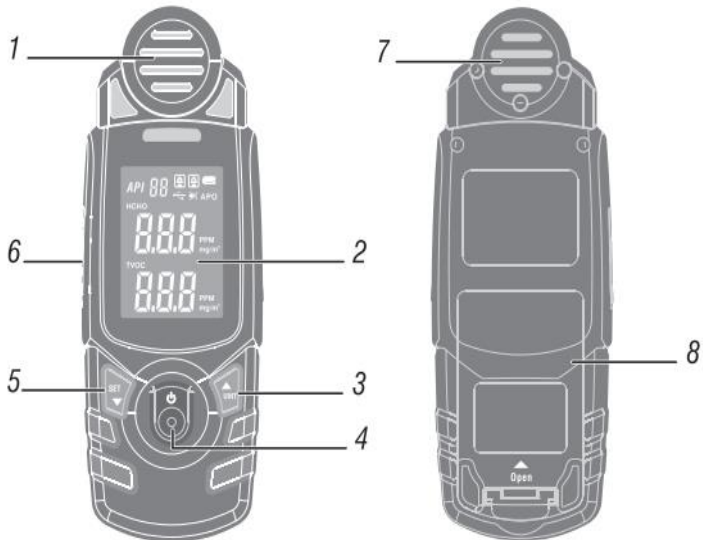
## 2 Introduction

The PCE-VOC 1 is a meter for indicative measurement of HCHO and TVOC. Its professional sensor technology recognizes gases within seconds and shows their concentrations. The meter is very user-friendly and can be used at home, in the office, at the production plant, in hotels, schools, etc.

## 3 Features

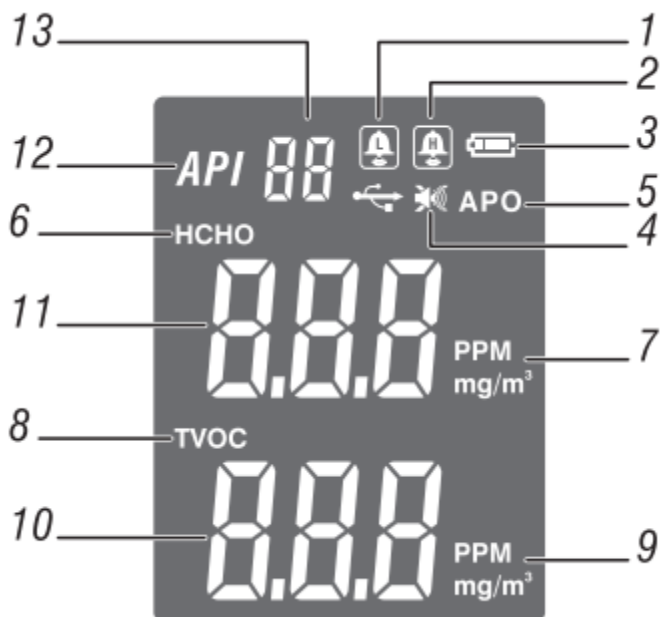
- Measures total volatile organic compound (TVOC) and formaldehyde (HCHO) levels
- Displays units in parts per million (ppm) or milligrams per cubic meter ( $\text{mg}/\text{m}^3$ )
- Long-lasting rechargeable lithium-polymer (LiPo) battery
- Audible and visual alarms
- Large, easy-to-read LCD screen
- User-friendly three-button operation
- Compact and lightweight yet heavy-duty design

## 4 Front Panel Description



1. HCHO detector mouth
2. LCD
3. Up / unit key
4. ON/OFF key
5. Down / set key
6. DC 9 V input
7. TVOC detector
8. Battery compartment cover

## 5 Display



1. Lower alarm level (low)
2. Upper alarm level (high)
3. Battery indication
4. Alarm on / off
5. Auto Power Off indication
6. HCHO
7. HCHO unit
8. TVOC
9. TVOC unit
10. TVOC reading
11. HCHO reading
12. Air pollution index (API)
13. API reading



## 6 Specifications

<b>HCHO</b>	0.00... 5.00 ppm or mg/m <sup>3</sup>
Resolution	0.01 ppm or mg/m <sup>3</sup>
Accuracy	± 5% of measured value
<b>Measuring range</b>	
<b>TVOC</b>	0.00... 9.99 ppm or mg/m <sup>3</sup>
Resolution	0.01 ppm or mg/m <sup>3</sup>
Accuracy	± 5% of measured value
Response time	< 2 seconds
Operating temperature	32... 104 °F / 0... 40 °C
Storage temperature	14... 140 °F / -10... 60 °C
Power supply	7.4 V / 1200 mAh LiPo battery
Power adapter/charger	9 V / 1 A
Charging time	Approx. 2 hours
Weight	Approx. 1.3 lbs / 584 g
Dimensions	6.5 x 2.4 x 1.0 in / 165 x 60 x 25 mm

## 7 On / Off

Press the ON/OFF key to switch on the meter.

The battery icon shows the battery level. Depending on the battery level, charge the battery or connect the meter to the power supply.

To switch off the meter, press and hold the ON/OFF key for 3 seconds.

## 8 Auto power off

The meter enters sleep mode after 30 minutes of inactivity to save energy.

## 9 Operation

When the meter is switched on, it shows the HCHO value. In the lower part of the display, you can see the TVOC reading. The meter required a warm-up phase of up to 90 seconds to show stable readings.

## 10 Alarm

Press and hold the Down / set key for 3 seconds. You can now set the lower alarm limit using the arrow keys and confirm with the ON/OFF key. The upper alarm limit can then be set in the same way.

## 11 Set / Unit keys

With the Up / unit key, you can switch between the measuring units. With the Down / set key, you can activate or deactivate the alarm function.

## 12 Contact

If you have any questions, suggestions or technical problems, please do not hesitate to contact us. You will find the relevant contact information at the end of this user manual.

## 13 Disposal

For the disposal of batteries in the EU, the 2006/66/EC directive of the European Parliament applies. Due to the contained pollutants, batteries must not be disposed of as household waste. They must be given to collection points designed for that purpose.

In order to comply with the EU directive 2012/19/EU we take our devices back. We either reuse them or give them to a recycling company which disposes of the devices in line with law.

For countries outside the EU, batteries and devices should be disposed of in accordance with your local waste regulations.

If you have any questions, please contact PCE Instruments.





## PCE Instruments contact information

### Germany

PCE Deutschland GmbH  
Im Langel 4  
D-59872 Meschede  
Deutschland  
Tel.: +49 (0) 2903 976 99 0  
Fax: +49 (0) 2903 976 99 29  
info@pce-instruments.com  
www.pce-instruments.com/deutsch

### France

PCE Instruments France EURL  
23, rue de Strasbourg  
67250 SOULTZ-SOUS-FORETS  
France  
Téléphone: +33 (0) 972 3537 17  
Numéro de fax: +33 (0) 972 3537 18  
info@pce-france.fr  
www.pce-instruments.com/french

### Spain

PCE Ibérica S.L.  
Calle Mayor, 53  
02500 Tobarra (Albacete)  
España  
Tel. : +34 967 543 548  
Fax: +34 967 543 542  
info@pce-iberica.es  
www.pce-instruments.com/espanol

### United States of America

PCE Americas Inc.  
711 Commerce Way suite 8  
Jupiter / Palm Beach  
33458 FL  
USA  
Tel: +1 (561) 320-9162  
Fax: +1 (561) 320-9176  
info@pce-americas.com  
www.pce-instruments.com/us

### United Kingdom

PCE Instruments UK Ltd  
Unit 11 Southpoint Business Park  
Ensign Way, Southampton  
Hampshire  
United Kingdom, SO31 4RF  
Tel: +44 (0) 2380 98703 0  
Fax: +44 (0) 2380 98703 9  
info@industrial-needs.com  
www.pce-instruments.com/english

### Italy

PCE Italia s.r.l.  
Via Pesciatina 878 / B-Interno 6  
55010 LOC. GRAGNANO  
CAPANNORI (LUCCA)  
Italia  
Telefono: +39 0583 975 114  
Fax: +39 0583 974 824  
info@pce-italia.it  
www.pce-instruments.com/italiano

### The Netherlands

PCE Brookhuis B.V.  
Institutenweg 15  
7521 PH Enschede  
Nederland  
Telefoon: +31 (0)53 737 01 92  
Fax: +31 (0) 53 - 430 36 46  
info@pcebenelux.nl  
www.pce-instruments.com/dutch

### Chile

PCE Instruments Chile S.A.  
RUT: 76.154.057-2  
Santos Dumont 738, local 4  
Comuna de Recoleta, Santiago, Chile  
Tel. : +56 2 24053238  
Fax: +56 2 2873 3777  
info@pce-instruments.cl  
www.pce-instruments.com/chile

### Hong Kong

PCE Instruments HK Ltd.  
Unit J, 21/F., COS Centre  
56 Tsun Yip Street  
Kwun Tong  
Kowloon, Hong Kong  
Tel: +852-301-84912  
jyi@pce-instruments.com  
www.pce-instruments.cn

### China

PCE (Beijing) Technology Co.,Ltd  
1519 Room, 6 Building  
Men Tou Gou Xin Cheng,  
Men Tou Gou District  
102300 Beijing  
China  
Tel: +86 (10) 8893 9660  
info@pce-instruments.cn  
www.pce-instruments.cn

### Turkey

PCE Teknik Cihazları Ltd.Şti.  
Halkalı Merkez Mah.  
Pehlivan Sok. No.6/C  
34303 Küçükçekmece - İstanbul  
Türkiye  
Tel: 0212 471 11 47  
Faks: 0212 705 53 93  
info@pce-cihazlari.com.tr  
www.pce-instruments.com/turkish