



Technology for Vacuum Systems

# VACUUM GAUGE

VACUU·VIEW  
VACUU·VIEW extended



## Instructions for use



**Original instructions  
Keep for further use!**

*This manual is only to be used and distributed in its complete and original form. It is strictly the users' responsibility to check carefully the validity of this manual with respect to his product.*

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*Thank you for purchasing this product from **VACUUBRAND GMBH + CO KG**. You have chosen a modern and technically high quality product.*

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# 1 Introduction

This manual is part of your product.

## 1.1 User information

### Safety

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Instructions for use  
and  
safety

- Read this manual thoroughly and completely before using the produkt.
- Keep this manual in an easily accessible location.
- Proper use of the product is essential for safe operation. Comply with all safety instructions provided!
- In addition to this manual, adhere to any relevant local accident prevention regulations and comply with industrial safety regulations.

### General

---

General  
information

- Instead of the term **VACUU-VIEW** mostly the term *Gauge or Vacuum gauge* is used in this manual, in order to make the text more readable.
- The illustrations in this manual are provided as examples in order for a better understanding.
- They are intended to aid in your understanding of the proper use of the product.

### Contact

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Contact us

- Please ask for replacement in case of an incomplete manual or download the manual on our website: [www.vacuubrand.com](http://www.vacuubrand.com)
- Contact us regarding any questions about this product, if you need further information, or to provide us with feedback.
- When contacting our Customer Service Department, please be sure to have the correct type and serial number of your product at call → see *Rating plate on the product*.

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## 1.2 About this document

### 1.2.1 Display conventions

#### Warning levels

	<b>CAUTION</b>
	<p><b>Indicates a potentially hazardous situation.</b></p> <p>Disregarding the situation could result in slight or minor injury or damage to property.</p> <p>⇒ Take appropriate action to avoid dangerous situation!</p>

<b>NOTICE</b>
<p><b>Notice for a potentially harmful situation.</b></p> <p>Disregarding the notice could lead to material damage.</p>

#### Additional notes

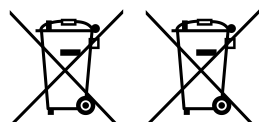
#### IMPORTANT!

- ⇒ Information or specific use recommendation, which must be observed.
- ⇒ Important information for proper operation.



- ⇒ Helpful tips and tricks
- ⇒ Additional information

#### Additional symbols



Electric/electronic devices and batteries must not be disposed of in the domestic waste at the end of their service life.

## 1.2.2 Handling instructions (action steps)

Presentation  
convention operating  
steps

### Action step (single step)

⇒ Do the described step.

- Result of action

### Handling instructions (multiple steps)

1. first step

2. next step

- Result of action

Follow steps in the described order.

## 1.2.3 Abbreviations

Used  
abbreviations

<b>abs.</b>	absolute
<b>ATM</b>	Atmospheric pressure
<b>d<sub>i</sub></b> (di)	Interior diameter
<b>DN</b>	Nominal diameter
<b>Gr.</b>	Size
<b>hPa</b>	Pressure unit, Hectopascal (1 hPa = 1 mbar = 0.75 Torr)
<b>KF</b>	Small flange
<b>max</b>	Maximum value
<b>mbar</b>	Pressure unit, millibar (1 mbar = 1 hPa = 0.75 Torr)
<b>min</b>	Minimum value
<b>RMA-N°</b>	Return Merchandise Authorization number
<b>Torr</b>	Pressure unit (1 Torr = 1.33 mbar = 1.33 hPa)
<b>VAC</b>	Vacuum

## 1.2.4 Term definition

Product specific  
terms

<b>VACUU·BUS®</b>	Bus system by <b>VACUUBRAND</b>
<b>VACUU·SELECT®</b>	Vacuum controller, controller with touchscreen; consisting of operating panel and vacuum sensor.
<b>VACUU·BUS® connector</b>	4-pin round connector for the bus system from <b>VACUUBRAND</b> .
<b>CVC 3000</b>	Vacuum controller, controller
<b>DCP 3000</b>	Vacuum gauge
<b>Fine vacuum</b>	Pressure measuring range in vacuum systems, from: 1 mbar-0.001 mbar (0.75 Torr-0.00075 Torr)
<b>Rough vacuum</b>	Pressure measuring range in vacuum systems, from: atmospheric pressure-1 mbar (atmospheric pressure-0.75 Torr)



## 2 Safety instructions

The complete information of this chapter must be observed by all persons working with the herein described product.

Use the product only when it is in proper working condition.

### 2.1 Intended use

Intended use **VACUU·VIEW** is a laboratory instrument for the measurement of absolute pressure in the range of rough vacuum or as **VACUU·VIEW extended** version for both measuring rough and fine vacuum.

The gauge may only be used indoors in non-explosive areas. Any other use is considered to be improper use.

### 2.2 Improper use

Improper use Improper use includes:

- Using the product contrary to its intended use.
- Operation with obvious malfunctions.
- Operation at inadmissible operating conditions.
- Unauthorized modifications or repairs provided by the customer.

## 2.3 General safety instructions

### 2.3.1 Safety precautions

- Safety precautions
- ⇒ Use the gauge only if you have understood its function and this manual.
  - ⇒ Please note that adhering process media can pose danger to humans and the environment.
  - ⇒ When handling with contaminated parts, follow the relevant regulations and safety precautions.
  - ⇒ Repairs are only allowed by the Service Department or your local supplier.

---

**IMPORTANT!**

**For all service works hazardous substances need to be excluded.**

- ⇒ Fill in the form [Health and Safety Clearance](#) thoroughly and completely and confirm with your signature.
- 

### 2.3.2 Personnel

---

**IMPORTANT!**

It is the owner's responsibility to observe the proper use of the device.

- ⇒ Always be conscious of safety, and work in a safe manner.
- ⇒ Observe the owners' directives at work, the national accident prevention regulations and occupational safety provisions.

### 2.3.3 ATEX category

#### Installation and explosive environment




**Installation and operation in areas where explosive atmosphere can occur is not allowed.**

#### ATEX equipment labeling

ATEX category



Vacuum units which are labeled with  are approved in accordance with the ATEX marking on the rating plate.

⇒ Use the VACUUBRAND product only when it is in proper working condition.

ATEX category  
and peripherals

**ATEX approval<sup>1</sup> is only valid for the internal, wetted parts area (vacuum sensor), not for the environment of the gauge.**

The ATEX category of the gauge is dependent on the connected peripheral devices. Peripherals and connected devices to the gauge need to have the same or higher ATEX approval. Without concordant categorization of peripherals, the specified category of the VACUUBRAND equipment loses its validity.

Prevent ignition  
source

The use of gas ballast or the operation of venting valves is only permitted if thereby explosive atmospheres normally do not occur in the interior of the equipment or, if they do occur, are likely to do so only infrequently and for a short period.

⇒ If necessary vent with inert gas.

For more and detailed information about ATEX approval visit our website: [www.vacuubrand.com/Information-ATEX](http://www.vacuubrand.com/Information-ATEX)

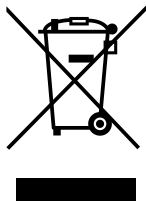
<sup>1</sup> compare with rating plate

## 2.4 Proper disposal

### NOTICE

**Risk of environmental damage due to incorrect disposal of the product.**

- ⇒ Do not dispose your product in household waste!  
Electronic components are subject to hazardous waste treatment and must only be disposed of by certified specialists.
- ⇒ Observe the national regulations for safe disposal and environmental protection.
- ⇒ Receive detailed information for respective regulations from your competent administrative authority.



### 3 Product description

#### Goods arrival

Goods arrival Check the shipment for transport damage and completeness.  
 ⇒ Report any transit damage immediately to the supplier.

<b>NOTICE</b>
<p><b>Condensate could damage the gauge.</b>                  A large difference in temperature between storage location and installation location can cause condensation.                  ⇒ Let the product acclimatise for 3-4 hours before using it.</p>

#### Included materials

Included materials

<b>Gauge</b>	
<b>VACUU·VIEW</b> with 2 m connection cable	20683220
<b>or</b>	
<b>VACUU·VIEW extended</b> with 2 m connection cable	20683210
<hr/>	
Hose nozzle 10/6 G1/4" with O ring	20642474
Wall power supply plug* 30W 24V; with adapters and 2 m connection cable	20612090
Instructions for use	20901330
Safety Information for Vacuum Equipment	20999254
Original packaging	-----

*\* not required when connected to a VACUU-BUS® compatible gauge or controller.*

### 3.1 VACUU-VIEW vacuum gauge

Gauge description and designs

The gauge as stand-alone version will be supplied with wall power supply plug. The gauge includes a vacuum sensor and is equipped with an illuminated display for pressure display. The gauge is highly, chemically resistant.

**VACUU-VIEW** completes the **VACUU-BUS®** accessories program. For more demanding tasks the gauge can be used as an external vacuum sensor when connected to a controller **VACUU-SELECT**, **CVC 3000** or the gauge **DCP 3000**.

When operating with a **DCP 3000** measured values can be stored (data logger) and graphically displayed. Via the RS 232 interface the pressure can be read by an external Computer.

#### 3.1.1 Designs

##### VACUU-VIEW



With chemically resistant ceramic diaphragm sensor for precise measurements in the range of **rough vacuum**. VACUU-VIEW provides gas-independent pressure indication with precise capacitive readout.

The material of the connection flange of **VACUU-VIEW** consists of black PP and is therefore easy to distinguish from the extended design.

##### VACUU-VIEW extended

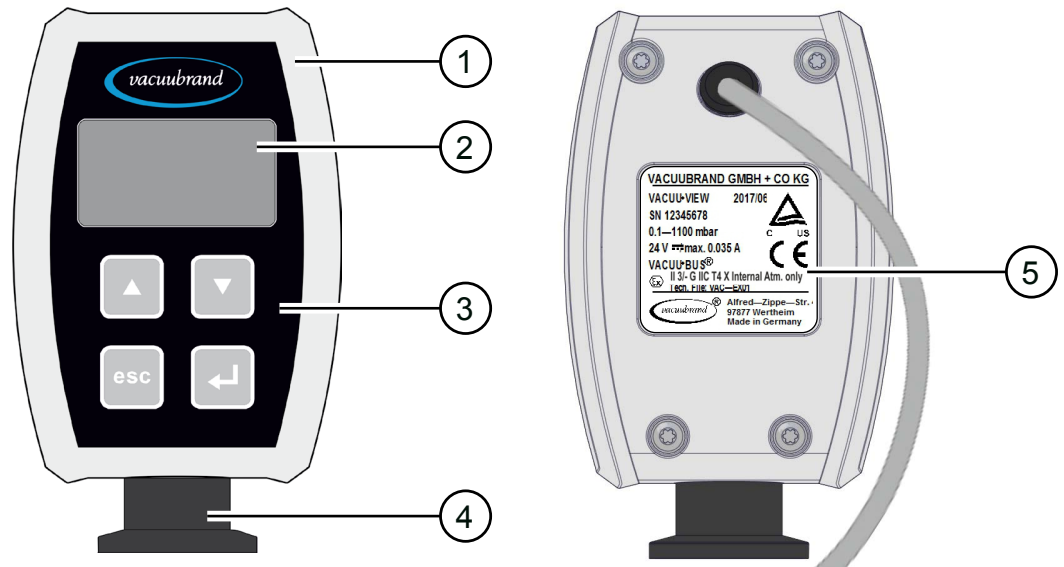


The heavy duty combination of ceramic diaphragm sensor and ceramic jacketed Pirani sensor ensures reliable readings in the wide range from atmosphere down to **rough until fine vacuum**. The gauge reliably measures in the complete measuring range.

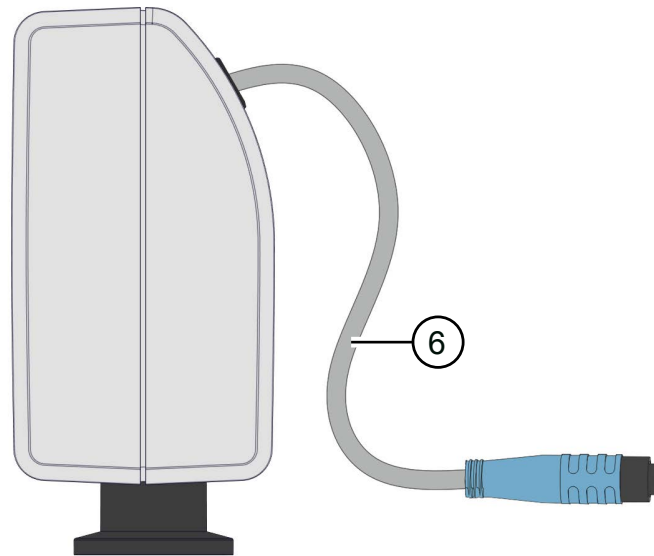
The connection flange of **VACUU-VIEW extended** consists of aluminium and has at the interior a PPS coating.

### 3.1.2 Device view

Front and rear side



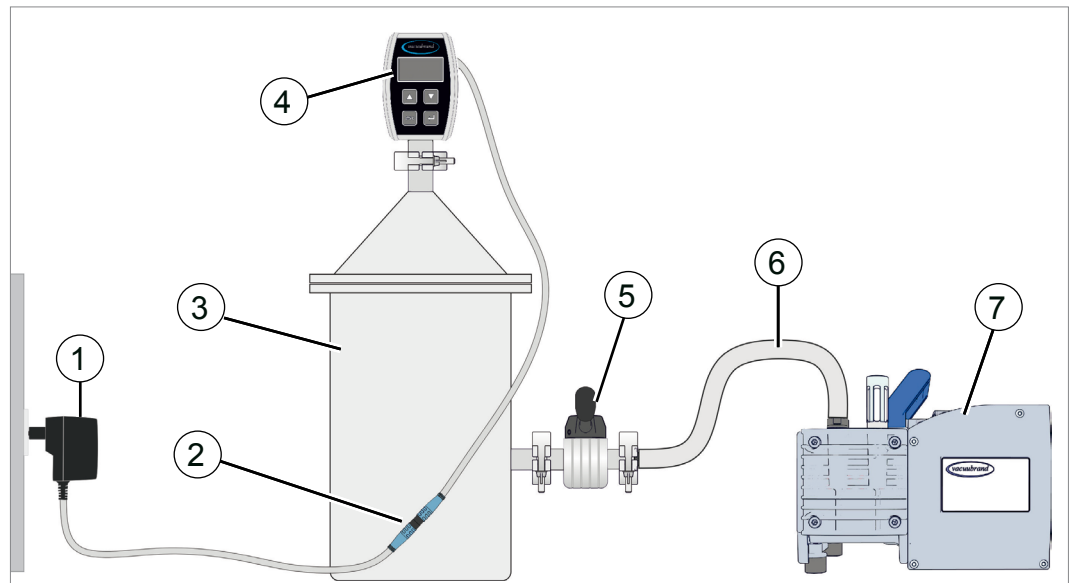
Side view



<b>1</b>	<b>VACUU-VIEW</b>
<b>2</b>	<b>Display</b>
<b>3</b>	<b>Operating elements</b>
<b>4</b>	<b>Small flange KF DN16, inside thread G1/4"</b> ▶ Material: PP black ⇒ <b>VACUU-VIEW</b> ▶ Material: Aluminium + PPS ⇒ <b>VACUU-VIEW extended</b>
<b>5</b>	<b>Rating plate (here VACUU-VIEW)</b>
<b>6</b>	<b>Connection cable, 2 m</b> ▶ for connection to wall power supply plug <b>or</b> ▶ for <b>VACUU-BUS®</b> connection to VACUU-SELECT, CVC 3000 or DCP 3000

### 3.2 Application example

→ Example  
VACUU·VIEW direct  
installation



- |   |   |
|---|---|
| 1 | Wall power supply, wall power supply plug   |
| 2 | Plug connector, connection cable (each 2 m)   |
| 3 | Vacuum chamber, tank, apparatus   |
| 4 | <b>VACUU·VIEW</b> vacuum gauge<br><i>(Stand-alone version including wall power supply plug)</i> |
| 5 | Vacuum valve  |
| 6 | Vacuum hose   |
| 7 | Diaphragm pump, vacuum pump   |



Please observe the following points to get an optimal measuring result:

- ⇒ Connect the gauge as close as possible to the apparatus.
- ⇒ If possible use the small flange for connection.
- ⇒ Connect the vacuum line with a cross-section as wide as possible.



## 4 Connection and operation

### 4.1 Connection

#### 4.1.1 Installation

**IMPORTANT!**

Never install the measuring instrument too close to hot equipment, like on top of a rotary vane pump, in order to avoid incorrect measurements or damages to the sensor.

The gauge is intended for assembly directly to the apparatus (application).

- ⇒ Observe all specifications for installation, connection and operation according to technical data, → see *chapter 9.1 Technical information*.
- ⇒ Also observe rating plate data.
- ⇒ Compare the permitted limits which are described in this manual, with your actual application regarding operating media, pressures, forces, moments, temperatures and voltage.

#### Installation conditions

- The gauge has acclimatized.
- Ambient conditions are observed and are within the limitation of use.

Consider installation conditions

Limitation of use		(US)
Ambient temperature	10–40 °C	50–104 °F
Altitude, max.	2000 m above sea level	6.562 ft above sea level
Relative humidity	30–85 %, non condensing	
Protection type/Impact energy	IP 54/5 J	
Pollution degree	2	
Avoid condensation or contamination by dust or liquids.		

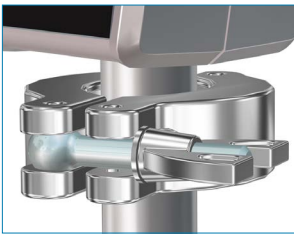
## 4.1.2 Vacuum connection

### IMPORTANT!

- ⇒ Maximum admissible pressure at vacuum sensor: 1.5 bar/ 750 Torr (absolute).
- ⇒ Pollution and damages, especially at the flange, could affect the measurement.
- ⇒ If possible assemble the vacuum gauge vertically; this prevents condensate accumulation.

### Connection via small flange

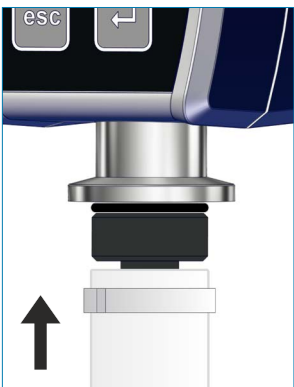
**Required connection material:** Clamping ring, centering or centering ring for KF DN16.



1. Remove dust cap.
2. Put the gauge with the centering onto the connection of the apparatus → small flange KF DN16.
3. Fix the vacuum gauge with a clamping ring.

### Connection via hose nozzle

**Required connection material:** Hose nozzle DN 6/10 mm G1/4" with O ring and compatible hose clip (option).



1. Remove dust cap.
2. Screw the hose nozzle plus the o ring hand-tight into the inside thread.
3. Use the hose nozzle to assemble the gauge to a vacuum hose or directly at the apparatus.
4. Fix the vacuum hose, e. g., with a hose nozzle.
5. Fix the vacuum gauge.

### IMPORTANT!

- ⇒ Use a stable vacuum hose that is suitable for the required vacuum range. For fine vacuum range, flexible rubber hoses for example are not useful because of possible gas emission.
- ⇒ Connect hose tubes as short as possible.

### 4.1.3 Electrical connection

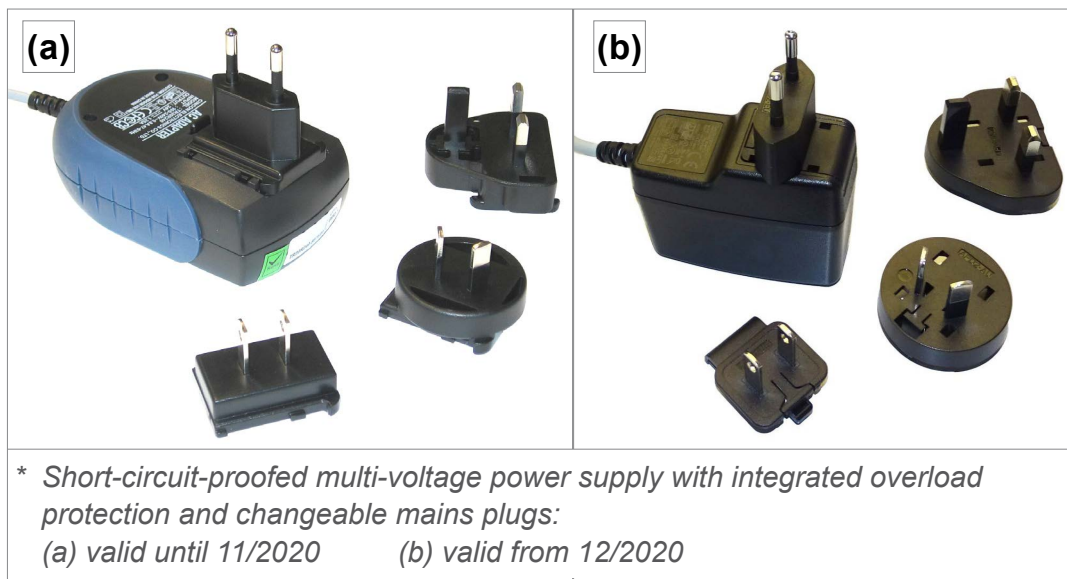
#### NOTICE

No wall power supply plug is required when connected as VACUU·BUS component, to a controller VACUU·SELECT, CVC 3000 or gauge DCP 3000.

⇒ Power supply of the gauge via VACUU·BUS.

#### Wall power supply plug\*

Wall power supply,  
wall power supply  
plug



#### Prepare wall power supply plug

Prepare connection

1. Take the wall power supply kit out of the packaging.
2. Select the mains plug that fits to your mains socket.
3. Connect the mains plug to the metal contacts of the wall power supply plug.
4. Slide the mains plug until it locks.

#### Remove mains plug

Remove mains plug

1. Press the locking knob on top of the wall power supply plug.
  2. Remove the mains plug.
- Another mains plug can be fixed.

## Connect to mains

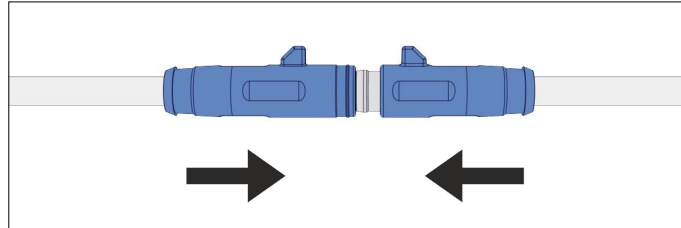
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**IMPORTANT!**

⇒ Please install the power supply line in such a way, that no damage can cause to the cable due to sharp edges, chemicals or hot surfaces.

---

1. Connect the mains connector from the gauge to the female plug of the wall power supply.

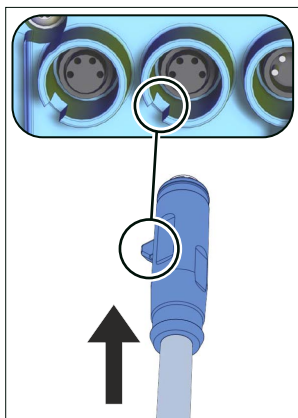


2. Plug the wall power supply into the mains socket.

### 4.1.4 Controller, gauge and VACUU-BUS®

Meaning

**VACUU-BUS®** is a communication system for peripheral accessories that are connected to **VACUUBRAND** controller or gauge. **VACUU-BUS®** components will be automatically detected by VACUU-SELECT/CVC 3000/DCP 3000. By uniform connectors and Y adapter the bus-system can be extended with up to 32 peripherals.



#### Connect VACUU-VIEW as VACUU-BUS® component (client)

⇒ Plug the mains connector of **VACUU-BUS®** into the port on the rear side of VACUU-SELECT, DCP 3000 or CVC 3000.

- Mains supply via controller or gauge.



Plug connectors of the newest series have a guide tongue for proper connection. Slide the connection into the guiding groove on the rear side of the controller or gauge.

#### Feature

VACUU-BUS  
Address assignment

When using the gauge as **VACUU-BUS®** component, e. g., when connected to a CVC 3000, the controller detects the gauge automatically as vacuum sensor.

#### IMPORTANT!

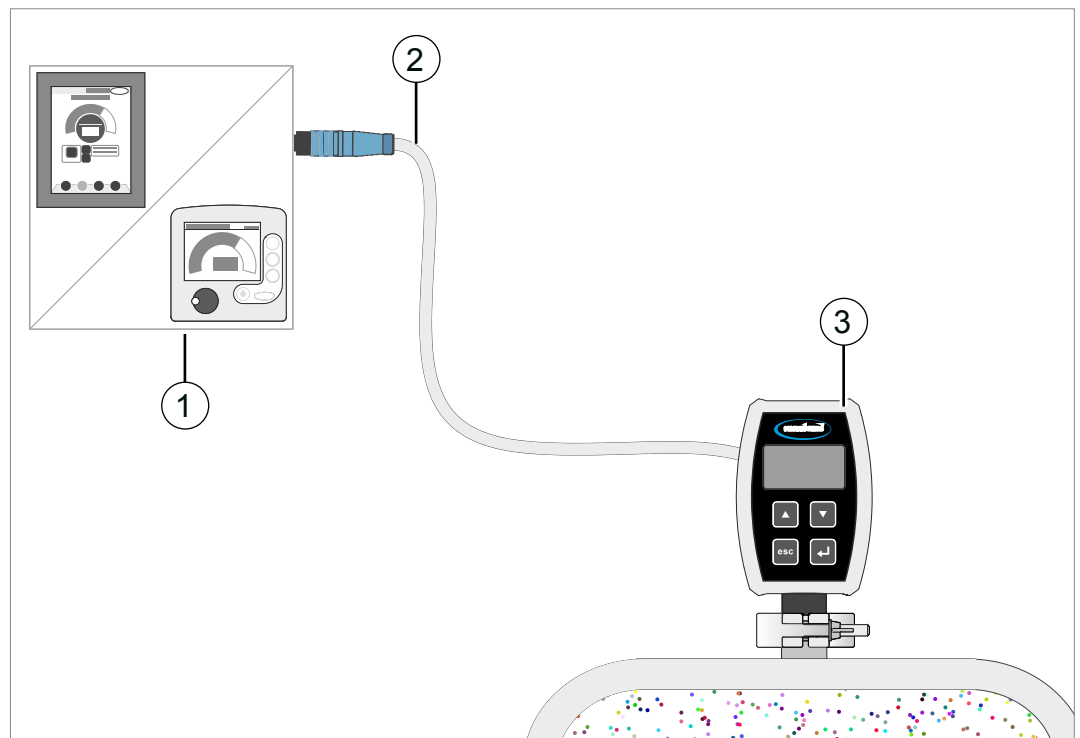
First perform address assignment at CVC or DCP, when working with several **VACUU-VIEW** gauges of the same type. For detailed descriptions about address assignment → see online manual 999151 (CVC 3000).

#### Address assignment

Vacuubus component	Address-N°	Abbreviations in	
		CVC/DCP	VACUU-SELECT
VACUU-VIEW	1-4	VSK _	VS-C _
VACUU-VIEW extended	1-4	VSP _	VS-P _
Reference sensor	1-4	Ref._	VS-REF_

Connection example VACUU·BUS® mit VACUU·VIEW

→ Example  
VACUU·VIEW  
as VACUU·BUS®  
component (client)

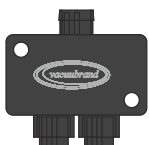


- 1 **VACUU·SELECT, CVC 3000\*** (or **DCP 3000\***)
- 2 Connection cable (power supply via **VACUU·BUS**)
- 3 **VACUU·VIEW** – Rough vacuum measurement  
or  
**VACUU·VIEW extended** – Rough- until fine vacuum measurement

**\* Options with CVC 3000 or DCP 3000:**

- ▶ using the RS 232 interface with an external application for reading the measuring data,
- ▶ with connection of several **VACUU·VIEW**s, address assignment and differential pressure measurement.

Y adapter



Up to 4 sensors **VACUU·VIEW** type and  
4 sensors **VACUU·VIEW extended** type and  
4 sensors **VACUU·VIEW** type -> reference sensor for  
differential pressure  
measurement

... can be connected to **VACUU·SELECT, CVC 3000** or  
**DCP 3000** by **VACUU·BUS®**-Y adapters.

→ see also: *Address assignment on page 21*

Please regard the maximum total cable length of 30 m.

## 4.2 Operation

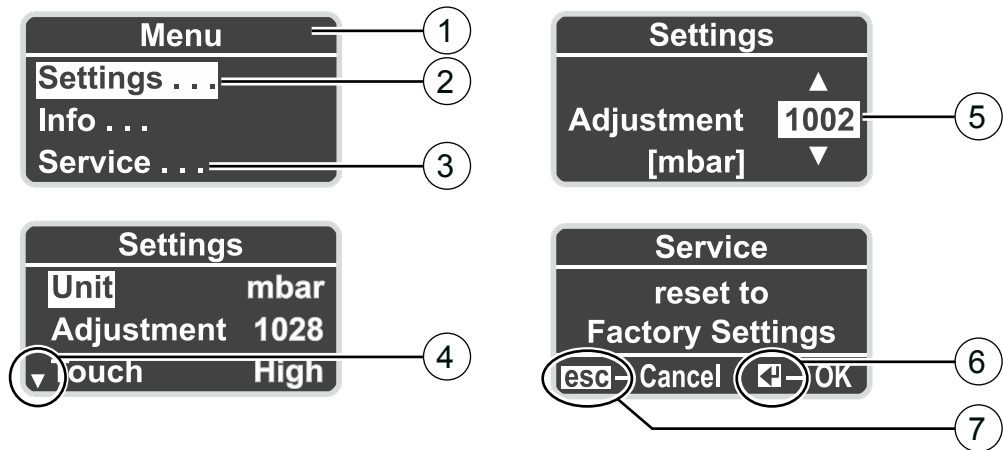
The operation is limited to the pre-settings about pressure unit and display settings, such as the sensitivity of the touch panel. Aside from that, version information can be displayed and factory settings or updates can be loaded. Operation of the gauge is unnecessary during the running measurement.

### 4.2.1 Display elements

Icons on the display show which key needs to be pressed to access a menu or submenu.

#### Meaning display and symbols

→ Examples  
Icons and  
illustrations on the  
display







1	Title bar
2	<b>Marking</b> = active selection
3	... = Refers to submenu
4	Press key arrow <i>down</i>
5	Adapt value with <i>up</i> or <i>down</i>
6	Press <i>Enter</i>
7	Press <i>Esc</i>

### 4.2.2 Operating elements

The front side of the gauge consists of a glass with a touch-sensitive control pad including 4 keys.

Operating elements  
touch keys

Key	Meaning
	<b>Arrow <i>up</i></b> <ul style="list-style-type: none"> <li>▶ Menu selection</li> <li>▶ Navigate upwards</li> <li>▶ Increase value</li> </ul>
	<b>Arrow <i>down</i></b> <ul style="list-style-type: none"> <li>▶ Menu selection</li> <li>▶ Navigate downwards</li> <li>▶ Decrease value</li> </ul>
	<b>Enter</b> <ul style="list-style-type: none"> <li>▶ Confirm entry</li> <li>▶ Call up menu</li> <li>▶ Confirm value</li> </ul>
	<b>Escape</b> <ul style="list-style-type: none"> <li>▶ Abort action or exit menu</li> <li>▶ Return to previous menu</li> <li>▶ Return to pressure display</li> </ul>

#### **NOTICE**

##### **Damage of the glass surface.**

Pointed or edged objects could damage the glass surface of the gauge.

⇒ Operate the vacuum gauge only by a suitable touch stylus or finger.

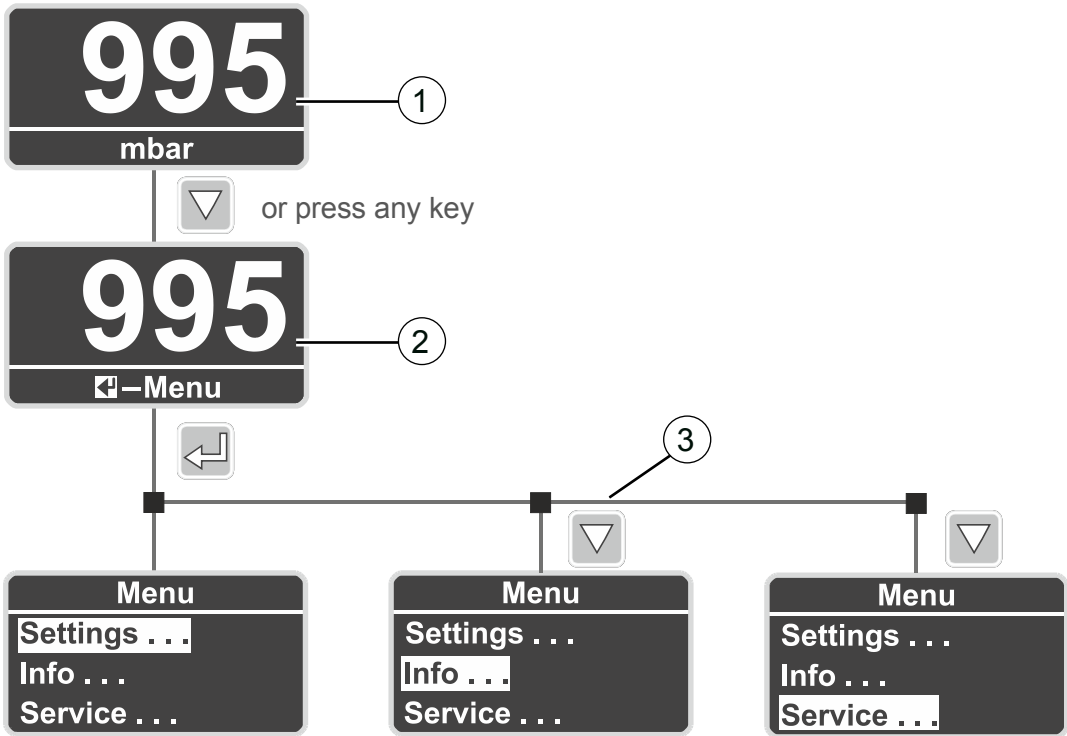


**4.2.3 Menu structure**

The display with text **Menu** in the footer can be called up by any touch key. The menu language is English.

**VACUU-VIEWMenus**

Menu structure



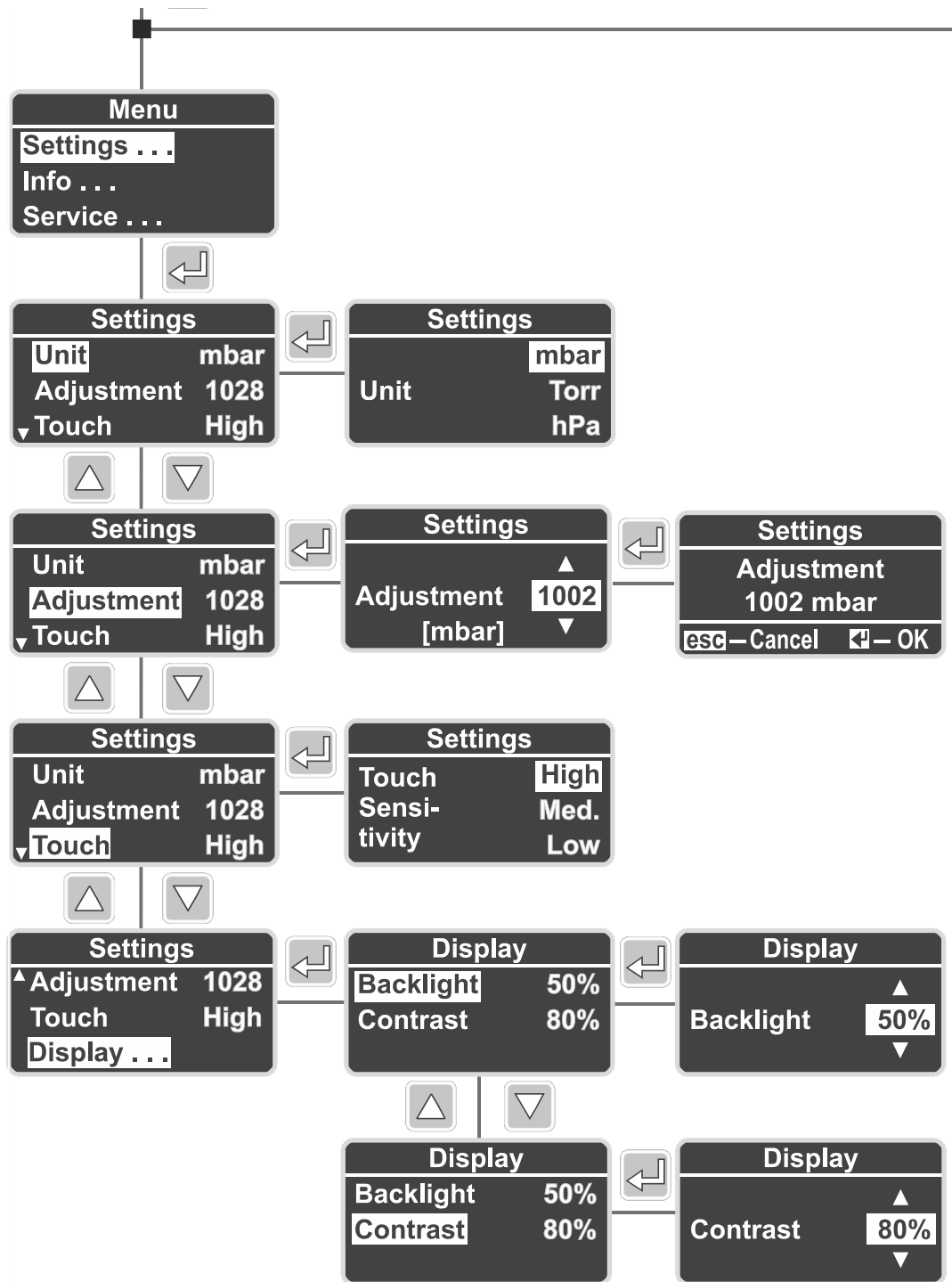
- 1 Pressure reading
- 2 Call-up selection menus
- 3 Menus
  - ▶ Settings
  - ▶ Info
  - ▶ Service

**i** Without any action, the display returns automatically to pressure display.

- ▶ Menu → return to basic screen after approximately 5 seconds.
- ▶ Submenu → return to basic screen after approximately 20 seconds.
- ▶ Submenu *Diagnostics* → return to basic screen after approximately 60 seconds.

**Menu Settings**

Adjustment option  
for Settings

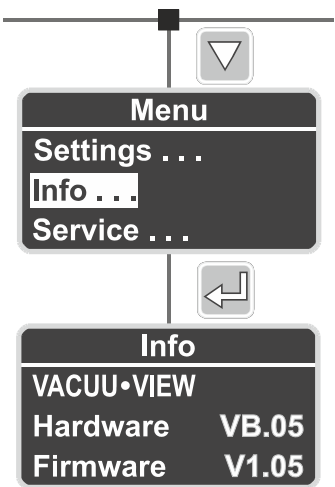


Menu Settings	
<b>Unit</b>	Default settings pressure unit ▶ mbar ▶ hPa ▶ Torr
<b>Adjustment</b>	Sensor adjustment ▶ ATM (700-1080 mbar) ▶ Vacuum (0 mbar)

Menu Settings	
<b>Touch</b>	Adjust sensivity of the touch panel <ul style="list-style-type: none"> <li>▶ High</li> <li>▶ Media</li> <li>▶ Low</li> </ul>
<b>Display</b>	Adjust brightness and contrast <ul style="list-style-type: none"> <li>▶ Backlight: 10% – 100 %</li> <li>▶ Contrast: 10% – 100 %</li> </ul>

**Menu Info**

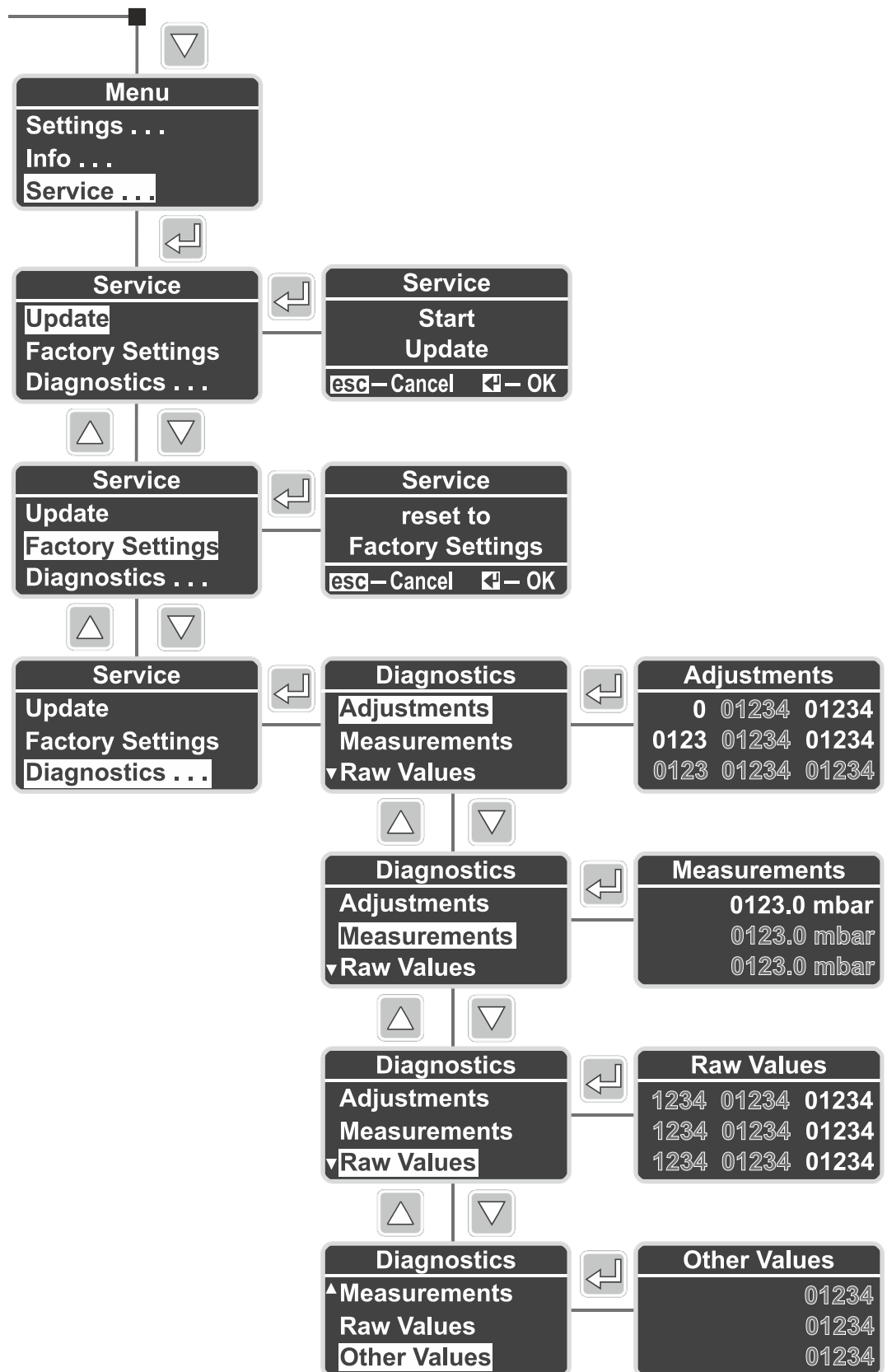
Call-up version information



Menu Info	
<b>Info</b>	Gauge type <ul style="list-style-type: none"> <li>▶ VACUU·VIEW</li> <li>▶ VACUU·VIEW extended</li> </ul> Gauge version ( <i>display example</i> ) <ul style="list-style-type: none"> <li>▶ Hardware: VB.xx</li> <li>▶ Firmware: V1.xx</li> </ul>

Service menu


Service menus



Service menus

Service menu	
<b>Update</b>	To perform software updates ▶ Start update
<b>Factory Settings</b>	Reset to factory settings ▶ reset to Factory Settings
<b>Diagnostics*</b> from software version V1.04	Call-up diagnostics menu ▶ Adjustment ▶ Measurements ▶ Raw Values
from software version V1.05	▶ Other Values

\* Menu for our Service department for error determination.



The display of diagnostics sub-menus for **VACUU·VIEW** and **VACUU·VIEW extended** do vary.

## 5 Operation

### 5.1 Vacuum measurement

Directly after mains connection the gauge **VACUU-VIEW (extended)** starts measuring and displaying pressure reading.

Also when connected to a **VACUU-BUS®** system, pressure reading starts immediately. The measurement starts immediately after switching on *CVC 3000* or *DCP 3000*.

The gauge is intended for continuous operation.

#### Warm-up (warm-up times)

**IMPORTANT!**

⇒ Observe the warm-up times until full measurement precision is reached.

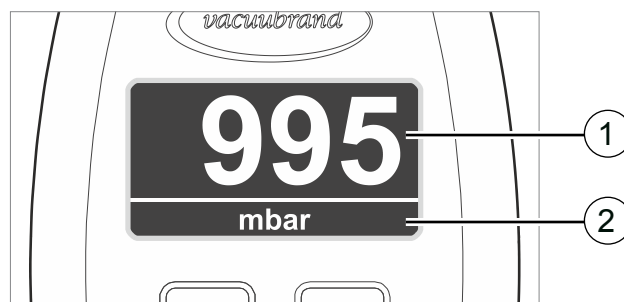
Warm-up times

<b>VACUU-VIEW</b>	Rough vacuum	▶ 3 minutes
<b>VACUU-VIEW extended</b>	Fine vacuum	▶ 15 minutes

### 5.2 Pressure reading

#### Display with pressure reading

Pressure reading, basic display



<b>1</b>	Pressure reading (min./max.)
<b>VACUU-VIEW</b>	▶ 0.1–1100 [mbar/hPa] ▶ 0.1–825 [Torr]
<b>VACUU-VIEW extended</b>	▶ 0.001–1100 [mbar/hPa] ▶ 0.001–825 [Torr]
<b>2</b>	Pressure unit (mbar, hPa, Torr)

## 5.3 Adjustment

### NOTICE

**For pressure < 5 mbar the VACUU-VIEW extended measures the pressure-dependent thermal conductivity of gas.**

The gauge is factory adjusted for air. For gases with higher mass, this may (<5 mbar) result in incorrect measurements.

- light gases: Pressure reading increased
- heavy gases: Pressure reading decreased

⇒ If required perform the adjustment with the gas that is to measured. H<sub>2</sub>, He, Ar, CO<sub>2</sub>.

**The adjustment is only possible after the warm-up time of the gauge has been completed.**

⇒ Perform adjustment only when the gauge is ready for use.

### 5.3.1 Sensor adjustment, in general

Adjustment is not part of the everyday operation. Perform adjustment only when the measured values differ from reference normal or when irregularities in pressure reading emerge.

#### IMPORTANT!

Only perform **sensor adjustment** during **operation** with a fully warmed-up sensor (consider warm-up time 15–20 minutes).

Precondition for a proper sensor adjustment is the connection to a reliable source of vacuum, e. g., adjustment of a **VACUU-VIEW extended** with a high vacuum pump and a precise reference gauge.

In case of a polluted vacuum system, e. g., with oil, particles or humidity could contaminate the sensor and cause mismeasurements and/or falsify sensor adjustment.

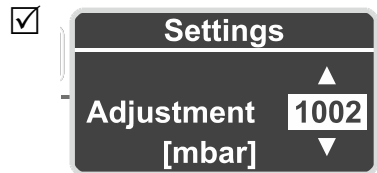
⇒ Clean polluted sensors before adjustment → see chapter: **8 Cleaning**.

### 5.3.2 Adjustment at atmospheric pressure

#### Perform sensor adjustment at atmospheric pressure

Sensor adjustment  
at atmospheric  
pressure

1. Call up the *menu Settings/Adjustment*.



2. If necessary, correct the value to the precise atmospheric pressure in accordance with the reference gauge by pressing the *arrow* keys.
3. Press *Enter* to confirm entry.
4. Subsequently confirm safety prompt by pressing *Enter*.
  - The pressure value will be stored automatically after confirming the safety prompt.
  - VACUU·VIEW (extended)** adjusted to atmospheric pressure.



**VACUU·VIEW** already displays the actual pressure. Normally, only corrections in the range of  $\pm 5$  are required.



### 5.3.3 Adjustment to reference pressure

#### Adjustment VACUU·VIEW to reference pressure

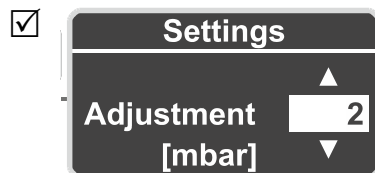
Adjustment at  
reference pressure

1. Connect the gauge **VACUU·VIEW** to a vacuum pump which pumps to a precise vacuum, e. g., down to 2 mbar.

#### IMPORTANT!

⇒ Check the accuracy of the ultimate vacuum with a calibrated reference vacuum gauge.

2. Call up the *menu Settings/Adjustment*. The value on the display should be **2** referring to the reached vacuum of the vacuum pump.
3. If necessary, correct the value for reference pressure **2** by pressing the *arrow* keys.



4. Press *Enter* to confirm entry.
5. Subsequently confirm safety prompt by pressing *Enter*.
  - VACUU·VIEW** adjusted to reference pressure.



The adjustment to a reference pressure should only be carried out when this pressure is accurately and reliably known.

We recommend the adjustment to 0 mbar by using a high vacuum pump (end vacuum < 0,1 mbar)

→ see also *5.3.4 Adjustment under vacuum*

### 5.3.4 Adjustment under vacuum

#### NOTICE

The adjustment at vacuum for **VACUU·VIEW extended** always occurs to the final measured value with 0 mbar. An adjustment to a reference vacuum value is not possible.  
 ⇒ Pump down to an ultimate vacuum as low as possible.

#### VACUU·VIEW (extended) adjusted under vacuum.

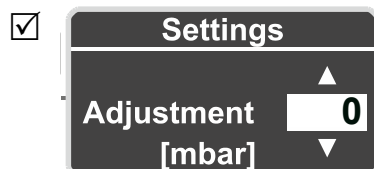
Adjustment under vacuum

1. Connect the gauge **VACUU·VIEW extended** to a high vacuum pump which pumps to a precise end vacuum lower than  $< 10^{-3}$  mbar  
 or  
 connect the gauge **VACUU·VIEW** to a high vacuum pump which pumps to a precise vacuum lower than  $< 0,1$  mbar.

#### IMPORTANT!

⇒ Check the accuracy of the ultimate vacuum with a calibrated reference vacuum gauge.

2. Please wait until the high vacuum pump has reached ultimate vacuum and until the gauge has completed warm-up.
3. Call up the *menu Settings/Adjustment*. The value on the display should be 0 .



4. Press *Enter* to confirm entry.
5. Subsequently confirm safety prompt by pressing *Enter*.  
 ☑ **VACUU·VIEW (extended)** adjusted under vacuum.

## 6 Service menus

### 6.1 Update

#### NOTICE

#### Damage to the gauge due to incorrect execution of updates.

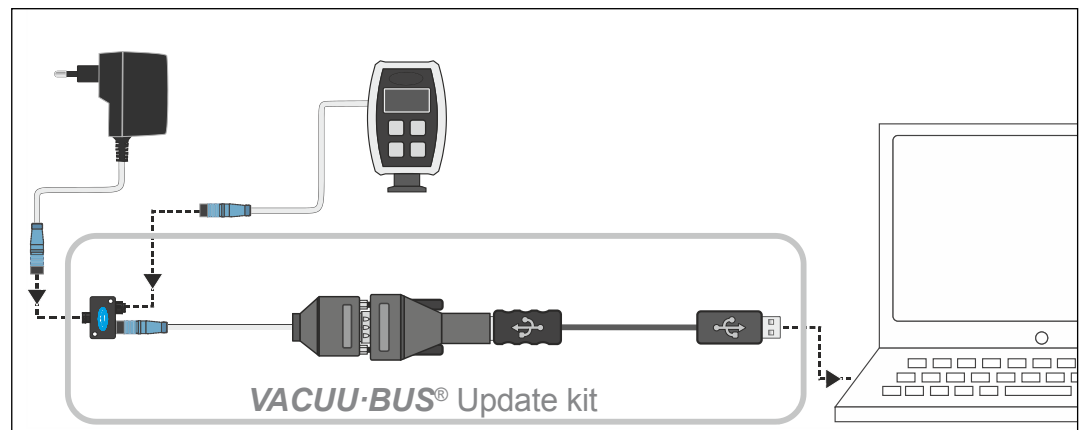
Gauges may be damaged by incorrect or unauthorized procedure.

- ⇒ Please note that you must have the necessary authorizations and basic knowledge for an update.
- ⇒ Always connect only one gauge to the **VACUU·BUS®** Update kit and run updates individually.

#### 6.1.1 Preparation

##### Connect **VACUU·BUS®**-Update-Kit<sup>1</sup>

→ Example  
Connect Update kit



1. Disconnect **VACUU·BUS®** connector from gauge and wall power supply plug.
2. Connect wall power supply plug, gauge and **VACUU·BUS®** Update kit one after the other to the Y adaptor.
3. Connect the **VACUU·BUS®** Update kit to a PC or laptop (= end device).
  - With the first connection of the Update kit the operating system displays an information prompt, e. g., Hardware Wizard displays Found New Hardware.
4. Plug the wall power supply into the mains socket.

<sup>1</sup> → see chapter 9.2 Ordering information

**Download and start update software<sup>2</sup>**


Download update file

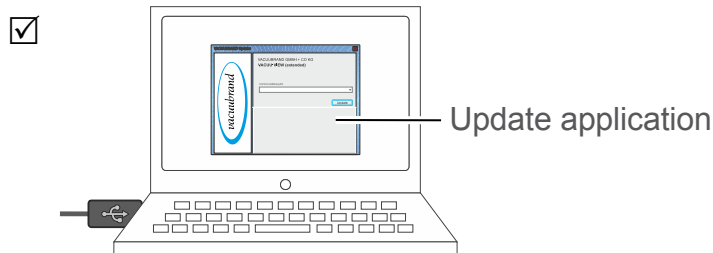
1. Download the [ZIP file](#) with updates for your device from **VACUUBRAND** homepage onto your computer.

2. Unzip the ZIP file:  
Right-click on the ZIP file ⇒ *Extract to...*

3. Open the extracted folder.

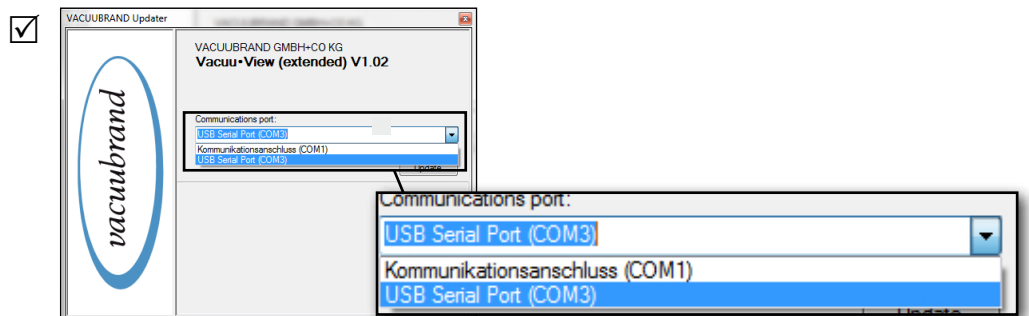
Start application (exe)

4. Start the update application by double-click on the icon .



5. Select the required COM port from the drop down list to which the **VACUU·BUS®** Update kit is connected: *USB Serial Port*.

→ Example



If no COM port is displayed for selection, you need to install the hardware driver for RS485/USB.

⇒ Ask the responsible staff member of your IT department to install the required hardware driver (CD-ROM is included to the Update kit).



⇒ First, please read the description in chapter **6.1.2 Update gauge** carefully before proceeding.

<sup>2</sup> Valid for both VACUU·VIEW as well as VACUU·VIEW extended.

### 6.1.2 Update gauge

**IMPORTANT!**

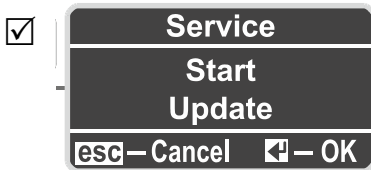


- ⇒ Please regard that you ever need to use the gauge and then promptly switch to the Updater window on your monitor.
- ⇒ Also note that the time window in which the updater application searches a connected device, takes **20 seconds**.

#### Perform software update

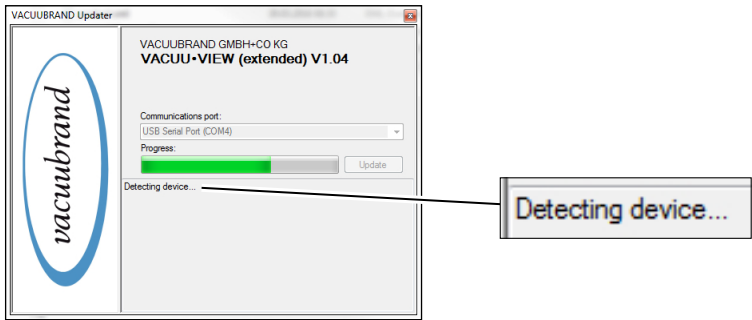
1. At your **VACUU-VIEW** gauge call-up the menu *Service/Update*.

Perform software update



2. Click on the button  .

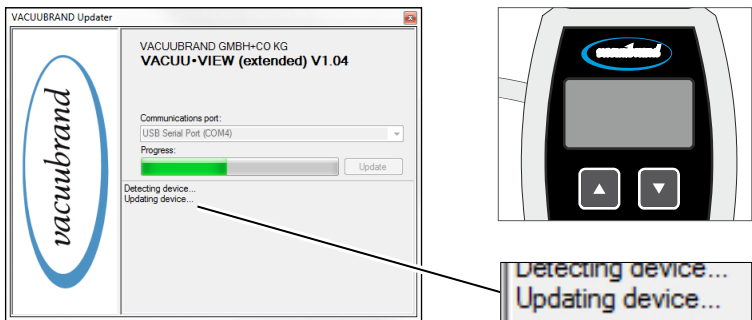
**Detection** for connected device starts.



3. Press **Enter** key on the gauge within the time the progress bar is displayed.

**Update starts.**

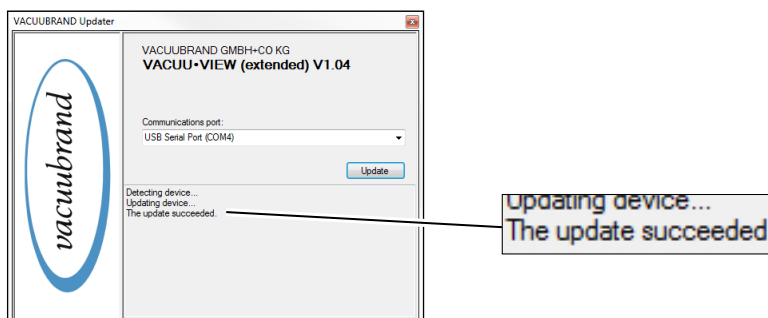
Within the update progress the display is switched off.



Perform software  
update

4. Wait until the update is completely loaded.

- The following prompt appears in the update application:



- Update succeeded.
- The display of the gauge is switched on again.



**IMPORTANT!**

⇒ Regard the warm-up time also after updating the gauge.

## 6.2 Factory Settings

### Reset to factory settings

---

Factory settings

1. Call up *menu Service/Factory Settings* .



2. Press *Enter* to start Reset.

Factory settings loaded.

## 6.3 Submenu Diagnostics

From *software version V1.04* a diagnostic menu is included for **VACUU-VIEW®** gauges.

### Call-up diagnostics menu

---

Diagnostics menus ⇒ Call up the *menu Service/Diagnostics ...*



### Call-up sub-menus

---

1. Press arrow key to select one of the sub-menus.
2. Press *Enter*, to call up the selected sub-menu.


When contacting our Service Department the *Diagnostics* values might help to localize an error.

### IMPORTANT!

- ⇒ Please send us photos of the displayed values. As well measured under vacuum as at atmospheric pressure.
  - ⇒ Email the photos to: [service@vacuubrand.com](mailto:service@vacuubrand.com)
  - ⇒ Details about the product type and serial number from the rating plate are also required.
-



## 7 Resolving problems

	<b>CAUTION</b>
	<p><b>Malfunction because of incorrect repair by the customer.</b></p> <p>The gauge is not intended for the repair by customer.</p> <ul style="list-style-type: none"> <li>⇒ Never open the vacuum gauge.</li> <li>⇒ If the gauge is defective, please send it to our Service Department or your local supplier.</li> </ul>

### 7.1 Error display

For error indication the backlight of the display switches to red.

#### Example error display



- |   |
|---|
| <b>1</b> Error display with red backlight   |
| <b>2</b> Error indication as clear text <ul style="list-style-type: none"> <li>▶ Over Pressure – pressure overload</li> <li>▶ Under Range – measuring fallen below lowest range</li> <li>▶ Sensor Failure – sensor error</li> </ul> |

## 7.2 Fault – Cause – Remedy

Resolving problems

<b>Fault</b>	<b>▶ Possible cause</b>	<b>✓ Remedy</b>
Over Pressure	<ul style="list-style-type: none"> <li>▶ Pressure too high.</li> <li>▶ Measuring range exceeded.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Vent the system or apparatus.</li> <li>✓ Reduce pressure.</li> <li>✓ Perform sensor adjustment.</li> <li>✓ Call-up diagnostics menu and inform our Service about the status.</li> </ul>
Under Range	<ul style="list-style-type: none"> <li>▶ Below measuring range (negative pressure reading).</li> </ul>	<ul style="list-style-type: none"> <li>✓ Perform sensor adjustment.</li> <li>✓ Call-up diagnostics menu and inform our Service about the status.</li> </ul>
Sensor Failure	<ul style="list-style-type: none"> <li>▶ Defective sensor.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Call-up diagnostics menu and inform our Service about the status.</li> <li>✓ Send in.</li> </ul>
Front glass broken	<ul style="list-style-type: none"> <li>▶ Incorrect cleaning agent used.</li> <li>▶ Mechanically damaged.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Send in.</li> </ul>
Readings deviate from the reference standard	<ul style="list-style-type: none"> <li>▶ Sensor measures incorrectly.</li> <li>▶ Reading of other gas than air.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Perform sensor adjustment.</li> <li>✓ Perform sensor adjustment with the gas to be measured.</li> <li>✓ Call-up diagnostics menu and inform our Service about the status.</li> </ul>
Adjustment ----	<ul style="list-style-type: none"> <li>▶ A for sensor adjustment inadmissible pressure is reached (no adjustment possible in between pressure range 20 – 700 mbar).</li> </ul>	<ul style="list-style-type: none"> <li>✓ Wait approximately 5 – 10 minutes until the sensor is ready for use.</li> <li>✓ Perform adjustment at &gt; 700 mbar or &lt; 20 mbar.</li> <li>✓ For adjustment connect a vacuum pump with precise vacuum and then move pump down to the possible pressure range.</li> </ul>
Menu Settings/ Adjustment warm up	<ul style="list-style-type: none"> <li>▶ Sensor warm-up not completed.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Wait approximately 5 – 10 minutes until the sensor is ready for use.</li> <li>✓ Subsequently perform sensor adjustment if necessary.</li> </ul>

Possible error during an update

<b>Fault</b>	<b>▶ Possible cause</b>	<b>✓ Remedy</b>
No display	▶ No power, wall power supply plug defective or not connected.	✓ Check power supply, connect wall power supply plug to a socket.
USB serial port not detected  (No COM-port for selection listed)	▶ No driver installed for RS485/USB interface. ▶ Driver for RS485/USB interface not enabled.	✓ Install the driver for the RS485 / USB interface from the supplied CD-ROM or via Internet download. ✓ Enable connection at the Device Manager.
Display switched off, no device reaction	▶ Update running = no error.	✓ Wait until the update is completed.
	▶ Update failed.	✓ Repeat Update: 1. Remove VACUU·BUS® connector from Y adapter. 2. Click on <i>Update</i> button in the update application. 3. Reconnect VACUU·BUS® connector to Y adapter within detection for connected device (progress bar). ✓ Send in the gauge, if the problem persists.
Update failed	▶ Update failed. ▶ Connection: Device ⇆ Update kit ⇆ End device, connection interrupted. ▶ No power, wall power supply plug defective or not connected. ▶ No connected device found.	✓ Connection: Do not interrupt connection: Device ⇆ Update kit ⇆ End device. ✓ Check power supply, connect wall power supply plug to a socket. ✓ Connect the device that needs to be updated → see also illustration in chapter <i>6.1.1 Preparation</i> .

### Technical support

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⇒ To identify errors and potential remedies, please refer to the troubleshooting

*Fault – Cause – Remedy* table:

For technical help or in case of errors you need additional help for, please contact your local supplier or our [Service](#)<sup>1</sup> department.

⇒ For practical help in contact with our Service department also use *6.3 Submenu Diagnostics on page 40*

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<sup>1</sup> -> Phone: +49 9342 808-5660, Fax: +49 9342 808-5555, [service@vacuubrand.com](mailto:service@vacuubrand.com)

## 8 Cleaning

Clean the sensor to remove malfunctions that are caused by a polluted sensor. We recommend to clean the sensor before adjustment.

### **IMPORTANT!**

This chapter does not contain descriptions for the decontamination of the product. This chapter describes only simple cleaning and care measures.

### 8.1 Housing surface

#### Clean surface

Clean surface

⇒ Clean polluted surface with a clean, slightly wetted cloth. To moisten the cloth we recommend water or mild soap.

### 8.2 Sensor

#### Clean sensor

Clean sensor

1. Fill a small amount of solvent via flange into the gauge, e. g., cleaning solvent.
2. Let the solvent react for a few minutes.
3. Pour the solvent.
  - ☑ Dissolved substances or discolorations in the solvent are possible.
4. Repeat this procedure until no more pollutants are in the solvent.
5. Air or ventilate the gauge until the internal chamber has dried.
6. Re-adjust the sensor.

## 9 Appendix

### 9.1 Technical information

<b>Designs</b>	
Vacuum gauge – <i>Rough vacuum</i>	<b>VACUU·VIEW</b>
Vacuum gauge – <i>Fine vacuum</i>	<b>VACUU·VIEW</b> extended

#### 9.1.1 Technical data


Technical data

<b>Ambient conditions</b>		(US)
Ambient temperature	10–40 °C	50–104 °F
Working temperature	10–40 °C	50–104 °F
Transport and storage temperature	-10–60 °C	14–140 °F
Altitude, max.	2000 m above sea level	6.562 ft above sea level
Relative humidity	30–85 %, non condensing	
Pollution degree	2	
Avoid condensation or contamination by dust, liquids or corrosive gases.		

<b>Plug-in power supply</b>	<b>30 W</b>	<b>25 W</b>
Input voltage	100–240 VAC	100–240 VAC
Frequency	50–60 Hz	50–60 Hz
Power consumption, max.	0,8 A	0,7 A
Output current, max.	1,25 A	1,05 A
Output voltage, short circuit proof	24 VDC	24 VDC
Weight	0.3 kg	0.14 kg
Dimensions L x B x H	108 mm x 58 mm x 34 mm 4.3 in. x 2.3 in. x 1.4 in.	71 mm x 57 mm x 33 mm 2.8 in. x 2.2 in. x 1.3 in.
Cable length, approx.	2 m (79 in.)	
Power plug	AC, replaceable: CEE/UK/US/AUS	

<b>Electrical data gauge</b>		(US)
Supply voltage, max.	24 VDC	24 VDC
Capacity, max.	1,3 W	1.3 W
Protection type/Impact energy	IP 54/5 J	
Power Surge Category	II	
Interface	VACUU·BUS®	

## Technical data

<b>Vacuum data</b>		
<b>VACUU-VIEW</b>		(US)
Measuring range, absolute	1100–0,1 mbar	825–0.1 Torr
Accuracy of measurement	< ±1 mbar/hPa/Torr, ±1 digit (after adjustment, constant temperature)	
Measuring principle	Ceramic diaphragm (alumina), capacitive, gas type independent, absolute pressure	
Temperature coefficient	< ±0,07 mbar/K	< ±0.05 Torr/K
Sensor	internal	internal
Max. admissible pressure, absolute	1,5 bar	1125 Torr
Max. admissible media temperature (gas) non-explosive atmosphere:		
momentarily	80 °C	176 °F
Continuous operation	40 °C	104 °F
Max. admissible media temperature (gas)  atmosphere:		
momentarily	40 °C	104 °F
Continuous operation	40 °C	104 °F
<b>VACUU-VIEW extended (only deviant items)</b>		
Measuring range, absolute	1100–0.001 mbar 1100–0.001 hPa	825–0.001 Torr
Temperature coefficient	< ±0.2 mbar/K	< ±0.15 Torr/K
Resolution at pressure ranges	0.001 hPa (0.001–0,1 hPa) 0.01 hPa (0.1– hPa) 0.1 hPa (1–10 hPa) 1 hPa (10–1100 hPa)	
Accuracy of measurement	±15% of indicated value in the range from 0.01–5 mbar/hPa/Torr, ±3 mbar for > 5 mbar	
Measuring principle	Ceramic diaphragm sensor + ceramic jacketed Pirani sensor	
<b>Connections</b>		
Cable (length)	2 m	79 in.
Plug connector	VACUU-BUS®	
Vacuum connection	Small flange KF DN 16 Hose nozzle DN 6/10	

## Technical data

<b>Display</b>		
Type	LC display (LCD)	
Brightness control	yes	
Pressure reading	switchable: mbar, Torr, hPa	
<b>Weight and dimensions*</b>		
		(US)
Weight	190 g	0.4 lb
<a href="#">Dimension sheet</a>	103 mm x 62 mm x 50 mm 4 in. x 2.4 in. x 2 in.	

\* without wall power supply


### 9.1.2 Wetted materials

## Wetted materials

<b>Component</b>	<b>Wetted materials</b>
<b>VACUU-VIEW</b>	
Vacuum sensor	Aluminium oxide ceramics
Metering box + small flange	PP
Sealing ring at the sensor	chemically resistant fluorelastomer
Hose nozzle	PPS, glass fiber reinforced
O ring (KF 16)	FKM
<b>VACUU-VIEW extended (only deviant items)</b>	
Metering box + small flange	PPS, glass fiber reinforced
Sealing ring at the sensor	FFPM

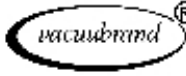


### 9.1.3 Rating plate

-  ⇒ In case of malfunction, please note type and serial number on the rating plate.
- ⇒ When contacting our service department, name us product type and serial number. With this information we can offer selective support and advice for your product.

#### Rating plate VACUU·VIEW, in general

Rating plate

Manufacturer	VACUUBRAND GMBH + CO KG
Type/Year+month of construction	VACUU·VIEW 20.../...
Serial number	SN .....
Pressure measuring range	..... mbar
Voltage supply	V $\Rightarrow$ max. .... A
compatible to VACUU·BUS	VACUU·BUS®
<u>ATEX spec*</u>	Internal Atm. only
Address	 Alfred-Zippe-Str. 4 97877 Wertheim Made in Germany

\* Group and category, marking G (gas), type protection, explosion group, temperature class (additionally see : [Approval for ATEX equipment](#)).

## 9.2 Ordering information

Vacuum gauge	Order N°
<b>VACUU·VIEW</b> , ready-for-use inclusive wall power supply plug	20683220
<b>VACUU·VIEW</b> extended, ready-for-use inclusive wall power supply plug	20683210

Ordering information  
accessories

Accessories	Order N°
Vacuum hose DN 6 mm (l = 1000 mm)	20686000
Vacuum hose DN 10 mm (l = 1000 mm)	20686002
PTFE hose KF DN 16 (l = 1000 mm)	20686031
Stainless steel tubing KF DN 16 (l = 1000 mm)	20673336
Fitting for PTFE tube 10/8 mm	
DAkKS calibration with first delivery	20900214
DAkKS recalibration	20900215
VACUU·BUS®/USB Update kit	20683230

Ordering information  
spare parts

Spare parts	Order N°
<b>VACUU·VIEW</b>	20683221
<b>VACUU·VIEW</b> extended	20683211
Hose nozzle 10/6 G1/4" with O ring	20642474
Wall power supply plug 30 W, 24 V; with adapters	20612090
Wall power supply plug 25 W, 24 V; with adapters	20612089
Y adapter VACUU·BUS	20636656
Extension cable VACUU·BUS, 2m	20612552
Wall duct VACUU·BUS	20636153
Instructions for use	20901330

International  
sales offices and  
specialized trade

### Source of supply

Purchase original accessories and spare parts from your specialized distributor or through international sales offices of **VACUUBRAND GMBH + CO KG**.



- ⇒ Information about the complete product range are available in the current [product catalog](#).
- ⇒ For orders, questions about vacuum control and optimal accessories, please contact your specialized distributor or an [international sales office](#) of **VACUUBRAND GMBH + CO KG**.

## 9.3 Service

Service offer and  
service range

Take advantage of the comprehensive service range of  
**VACUUBRAND GMBH + CO KG.**



### Service in detail

- product guidance and practical solutions,
- fast delivery of spare parts and accessories,
- professional maintenance,
- immediate repairs processing,
- Service on the spot (on request),
- [Calibration](#) (DAkkS accredited),
- return, disposal.

⇒ Visit our website for further information:  
[www.vacuubrand.com](http://www.vacuubrand.com).

### Servicing handling

Meet the  
terms of service

1. Contact your local supplier or our Service Department.
2. Request a RMA number for your order.
3. Clean the product thoroughly and if necessary decontaminate it professionally.
4. Please fill in this form [Health and Safety Clearance](#) completely.
5. Return your product including:
  - RMA-N°,
  - Repair- or service order,
  - Form *Health and Safety Clearance*,
  - Short error description.

Return (reshipment)



- ⇒ Reduce downtime, speed up the service process. Please keep the required data and documents ready when contacting our Service Department.
- ▶ Your order can be quickly and easily processed.
  - ▶ Hazards can be excluded.
  - ▶ A short description or photos may help for error location.

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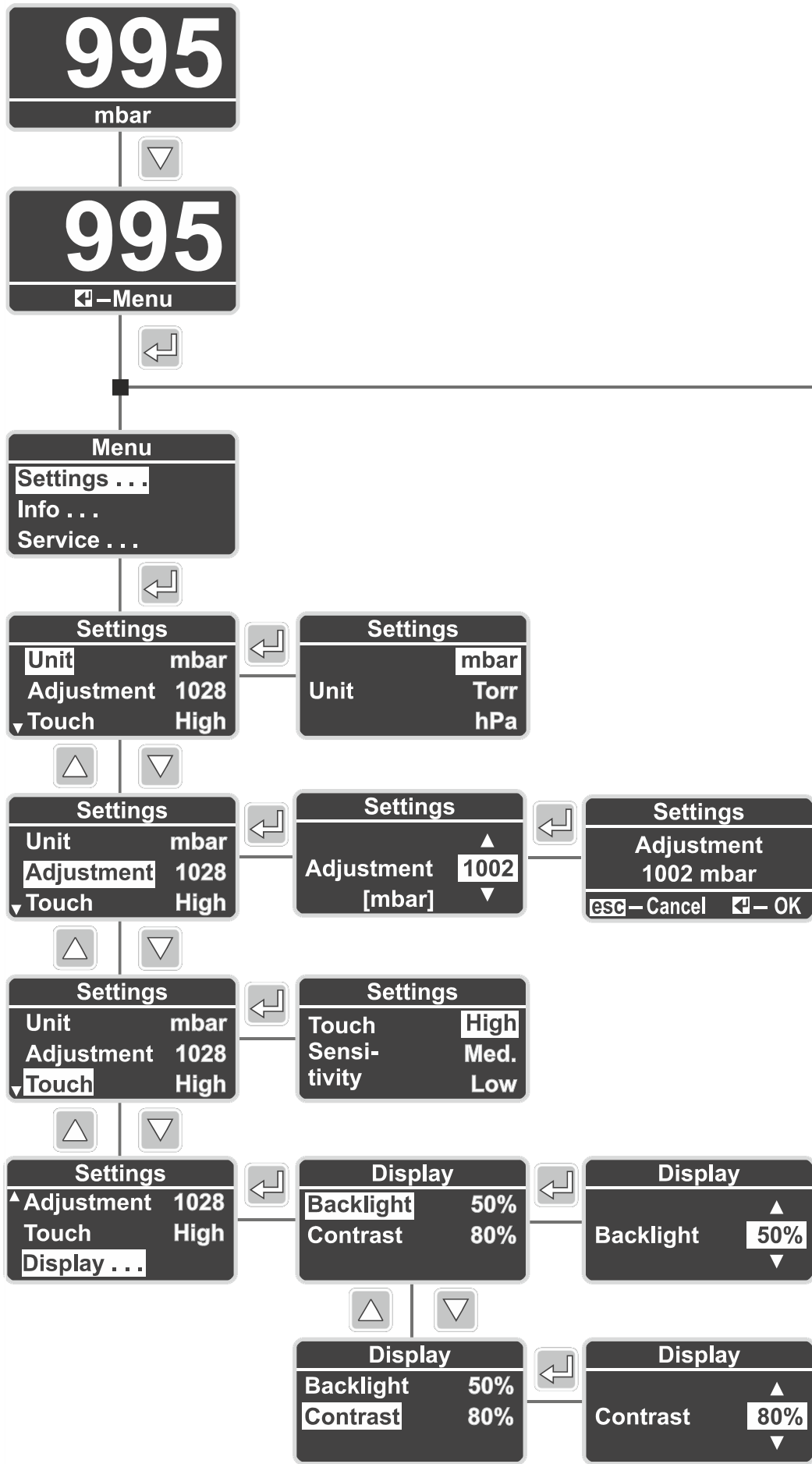
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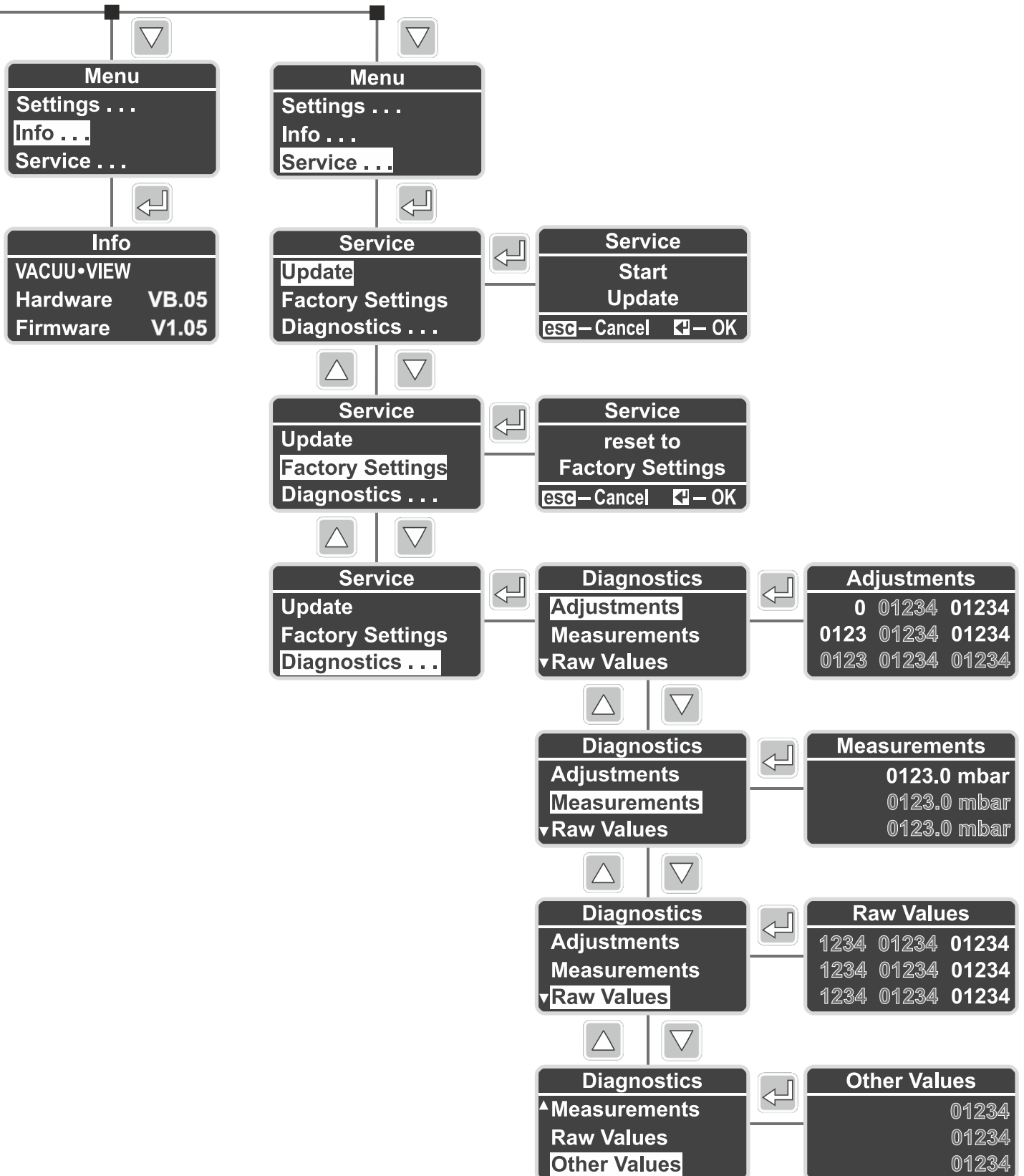
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## 9.5 Overview menu structure Vacuu-View (extended)



## 9.6 EC Declaration of Conformity

### EU-Konformitätserklärung EC Declaration of Conformity Déclaration CE de conformité



Hersteller / Manufacturer / Fabricant:

**VACUUBRAND GMBH + CO KG** · Alfred-Zippe-Str. 4 · 97877 Wertheim · Germany

Hiermit erklärt der Hersteller, dass das Gerät konform ist mit den Bestimmungen der Richtlinien:

Hereby the manufacturer declares that the device is in conformity with the directives:

Par la présente, le fabricant déclare, que le dispositif est conforme aux directives:

2014/30/EU (EMV-RL), 2014/35/EU (Niederspannungs-RL),  
2014/34/EU (ATEX-RL), 2011/65/EU (RoHS-2)

Messgerät / Vacuum gauge / Vacuomètre

Typ / Type / Type: **VACUU·VIEW / VACUU·VIEW extended**

Artikelnummer / Order number / Numéro d'article: 20683210, 20683220, 20683211,  
20683221

Seriennummer / Serial number / Numéro de série: Siehe Typenschild / See rating  
plate / Voir plaque signalétique

Angewandte harmonisierte Normen / Harmonized standards applied /  
Normes harmonisées utilisées : DIN EN ISO 12100:2011, IEC 61010-1:2010  
(Ed. 3), DIN EN 61010-1:2011, DIN EN 61326-1:2013, DIN EN 1127-1:2011,  
DIN EN ISO 80079-36:2016, DIN EN 50581:2013

Bevollmächtigter für die Zusammenstellung der technischen Unterlagen / Person  
authorised to compile the technical file / Personne autorisée à constituer le dos-  
sier technique: Dr. F. Gitmans · VACUUBRAND GMBH + CO KG · Germany

Ort, Datum / place, date / lieu, date: Wertheim, 05.03.2019



(Dr. F. Gitmans)

*Geschäftsführer / Managing Director /  
Gérant*



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(Dr. A. Wollschläger)

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[www.vacuubrand.com/Zertifikate](http://www.vacuubrand.com/Zertifikate)



## 9.7 Declaration of Conformity 符合性声明 – China RoHS 2

VACUUBRAND GMBH + CO KG has made reasonable efforts to ensure that hazardous materials and substances may not be used in its products.

In order to determine the concentration of hazardous substances in all homogeneous materials of the subassemblies, a “Product Conformity Assessment” (PCA) procedure was performed. As defined in GB/T 26572 the “Maximum Concentration Value” limits (MCV) apply to these restricted substances:

- Lead (Pb): 0.1%
- Mercury (Hg): 0.1%
- Cadmium (Cd): 0.01%
- Hexavalent chromium (Cr(+VI)): 0.1%
- Polybrominated biphenyls (PBB): 0.1%
- Polybrominated diphenyl ether (PBDE): 0.1%



### Environmentally Friendly Use Period (EFUP)

EFUP defines the period in years during which the hazardous substances contained in electrical and electronic products will not leak or mutate under normal operating conditions. During normal use by the user such electrical and electronic products will not result in serious environmental pollution, cause serious bodily injury or damage to the user’s assets.



The Environmentally Friendly Use Period for VACUUBRAND products is 40 years.

此表格是按照SJ/T 11364-2014中规定所制定的。  
This table is created according to SJ/T 11364-2014.

MATERIAL CONTENT DECLARATION FOR VACUUBRAND PRODUCTS							
部件名称 Part name	有毒有害物质或元素 Hazardous substances						环保期限标识 EFUP
	铅 Pb	汞 Hg	镉 Cd	六价铬 Cr(+VI)	多溴联苯 PBB	多溴二苯醚 PBDE	
包装 Packaging	○	○	○	○	○	○	
塑料外壳 / 组件 Plastic housing / parts	○	○	○	○	○	○	
真空油 Vacuum oil	○	○	○	○	○	○	
电池 Battery	○	○	○	○	○	○	
玻璃 Glass	X	○	○	○	○	○	
电子电气组件 Electrical and electronic parts	X	○	○	○	○	○	
控制器 / 测量设备 Controller / measuring device	X	○	○	○	○	○	
金属外壳 / 组件 Metal housing / parts	X	○	○	○	○	○	
电机 Motor	X	○	○	○	○	○	
配件 Accessories	X	○	○	○	○	○	

**注释:** 此表格适用于所有产品。以上列出的元件或组件不一定都属于所附产品的组成。

**Note:** Table applies to all products. Some of the components or parts listed above may not be part of the enclosed product.

- O: 表示该有毒有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量要求以下。  
 O: Indicates that the above mentioned hazardous substance contained in all homogeneous materials of the part is below the required limit as defined in GB/T 26572.
- X: 表示该有毒有害物质至少在该部件某一均质材料中的含量超出GB/T 26572规定的限量要求。  
 X: Indicates that the above mentioned hazardous substance contained in at least one of the homogeneous materials of this part is above the required limit as defined in GB/T 26572.

除上表所示信息外，还需声明的是，这些部件并非是有意图用铅（Pb）、汞（Hg）、铬（Cd）、六价铬（Cr(+VI)）、多溴联苯（PBB）或多溴二苯醚（PBDE）来制造的。

Apart from the disclosures in the above table, the subassemblies are not intentionally manufactured or formulated with lead (Pb), mercury (Hg), cadmium (Cd), hexavalent chromium (Cr+VI), polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE).

Products manufactured by VACUUBRAND may enter into further devices (e.g., rotary evaporator) or can be used together with other appliances (e.g., usage as booster pumps).

With these products and appliances in particular, please note the EFUP labeled on these products. VACUUBRAND will not take responsibility for the EFUP of those products and appliances.

Place, date: Wertheim, 02/04/2019



(Dr. F. Gitmans)  
Managing Director



i.A. (Dr. A. Wollschläger)  
Regulatory Affairs Manager

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