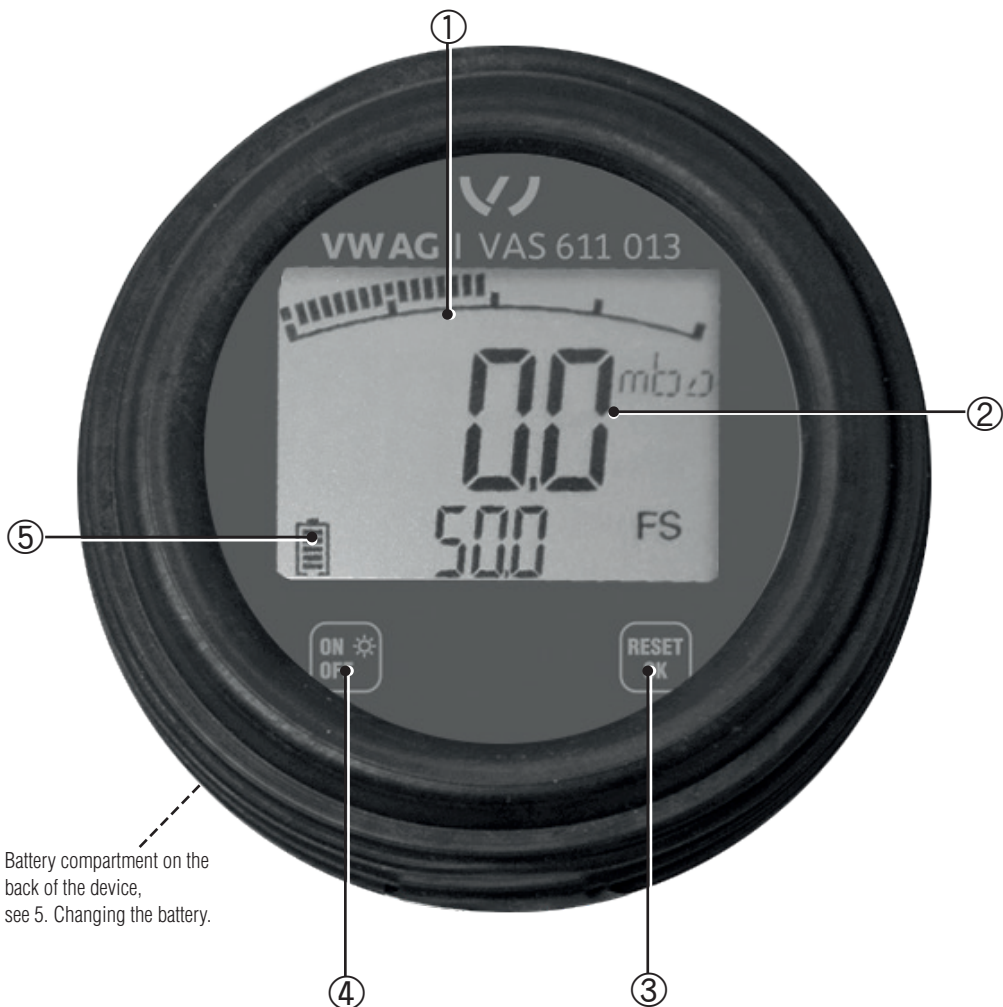


# Digital pressure gauge VAS 611 013



When measuring, hang up the pressure measurement device using the hook provided.





Battery compartment on the back of the device, see 5. Changing the battery.

①	Bargraph	The bar graph graphically depicts the maximum measuring span. The stored MAX value is displayed as a static, individual bar (= drag pointer function). The display is updated at an interval of 10 milliseconds. (100 measurements / second)
②	Measurement value and pressure unit	Displays the current pressure. This display is updated at an interval of 300 milliseconds. (3 displays / second) Displays the unit set.
③	RESET / OK button	Zero point correction
④	ON/OFF button	Switching the device on/off Press 3 seconds – background lighting on (switched on for 20 seconds)
⑤	Battery symbol	Displays the battery status (fully charged = 5 segments)

# Contents

1. Safety provisions . . . . .	4
2. Intended use . . . . .	5
3. Initial operation . . . . .	5
4. Battery disposal . . . . .	5
5. Battery display and battery replacement . . . . .	6
6. Functions and buttons . . . . .	7
7. Technical data, specifications . . . . .	7
8. Maintenance and storage . . . . .	8
9. Operation as a pressure sensor with measurement technology box VAS 6356 . . . . .	8

## 1. Safety provisions



- **Safe working with the device is only possible if you read the operating instructions and safety information thoroughly and strictly observe the directions that they contain. Keep the operating instructions for later reference or pass them on to possible new owners.**



- **Before each use of the measurement device, please check the housing for visible damage. Should damage be visible, the device must not be used.**
- **Do not subject the device to any extreme temperatures, direct sunlight, extreme humidity or wet.**
- **No technical modifications to the unit may be made.**
- **The device may only be cleaned with a moist cloth. Do not use any abrasive cleaners or cleaning agents containing solvents.**
- **Furthermore, this measuring device may not be used if the ambient conditions (temperature, humidity ...) are outside the limits stated in the specifications.**
- **The measuring device may not be used in an explosive atmosphere.**
- **The limit values stated in the specification for the parameters must not be exceeded under any circumstances whatsoever.**
- **Failure to comply with these safety notes may result in damage to the unit and injuries to the operator.**
- **The electrical connection may only be made using the approved connection cable to the measurement technology box VAS 6356, because the digital pressure gauge can be destroyed otherwise.**



## 2. Intended use

The **VAS 611 013** is a digital pressure gauge of accuracy class 0.5 FSO. The sampling rate is 10 milliseconds (100 measurement values/second) for measuring dynamic pressure peaks.

## 3. Initial operation



### **IMPORTANT!**

**The batteries are included in delivery and are not in the device.  
You must insert the batteries before use, see point 5.**

- Switch on the device after inserting the batteries.
- The measuring device carries out a self-test.
- After completion of the self-test, the digital pressure gauge is ready for operation.

## 4. Battery disposal

### **We have the duty to draw your attention to the following:**

This product uses batteries. As a consumer, you are legally required to return used batteries to the according collection points in order to avoid batteries entering the household waste cycle!

### **Batteries contain chemicals which can damage humans and the environment if released.**

You can, for example, return used batteries to municipal collection points or to the trade, free of charge. The symbol illustrated on the battery has the following meaning:

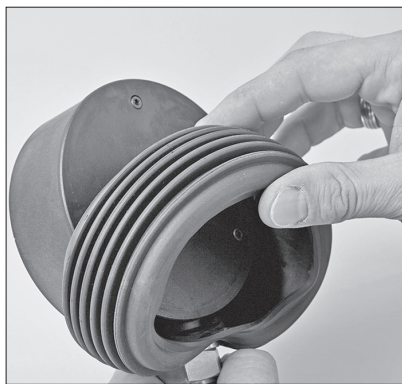


Battery must not be put in the household waste.



## 5. Battery display and battery replacement

- The battery capacity is shown permanently with the battery symbol.
- When the battery is empty, the device goes off and "BATT Low" is shown on the display. The batteries must be replaced.

1. Switch the device off and push the rubber cap towards the rear over the housing.
2. Open the rear side of the device: Loosen and remove the 3 screws (hexagon socket 2.5mm), lift the cover off.
3. Replace the batteries. Pay attention to the polarity! Batteries 2 x 1.5 V (LR6 - AA).
4. Restore the original state.



## 6. Functions and buttons

Button	Meaning	Function
	On/Off Lighting	Switching the device on/off. Background lighting on: press 3 seconds (switched on for 20 seconds).
	Zero point correction	Short press carries out a zero point correction.

### Overflow

If the device displays "OFL" (overflow), this means that the existing pressure is too high.

The device automatically shuts down after 45 minutes of inactivity.

## 7. Technical data, specifications

Pressure connection	Coupling plug DN 2.7
Relative pressure measurement range	-50...+50 mbar
Resolution	0.1 mbar
Measurement precision display	0.5 % FS
Overpressure protected	2 bar
Bursting pressure	3 bar
Measurement precision	0,5 % FS @ 0 °C...+50 °C
Operating temperature	-10...+50 °C
Storage temperature	-20...+60 °C
Rel. humidity	<85 % without condensation
Precision 4...20 mA output	0.5 % FS
Display	LCD, 3-digit
Digit height of current measurement value	16 mm
Current consumption	max. 40 mA
Batteries	2 x 1.5 VDC LR6-AA
Battery life	up to 1500 hours
Wetted parts	
- Pressure connection	Brass 2.0401
- Membrane	Ceramic
- Seal	EPDM
External power supply	10.8 VDC...16.5 VDC
Weight	approx. 450 g
Dimensions L x W x H	155 x 100 x 50 mm

## **8. Maintenance and storage**

Only clean the device with a dry, soft cloth. Be careful when cleaning in order to avoid scratching. In case of heavy soiling, the cleaning cloth can be moistened slightly with water. No moisture is allowed to ingress into the inside of the product. Do not use any cleaning agents or chemicals as this may damage the material.

Store your product in a dry, dust-protected environment. Avoid places with higher temperatures and moisture or places which can become wet, also for maintenance.

Repairs must be carried out exclusively by the manufacturer.

Keep the original packaging to avoid damage during transportation.

## **9. Operation as a pressure sensor with measurement technology box VAS 6356**

If the digital pressure gauge is connected to measurement technology box VAS 6356, "Send" is shown on the display and the analog current output is activated. All buttons except the lighting function are deactivated in this operating mode.