



# OPERATING INSTRUCTIONS

EN

Translation of the original instructions

## REMOTE CONTROL

For leak detector

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# 1 About this manual

## 1.1 Validity

This operating manual is for customers of Pfeiffer Vacuum. It describes the functioning of the designated product and provides the most important information for safe use of the unit. The description follows applicable EU guidelines. All information provided in this operating manual refers to the current state of the product's development. The documentation remains valid as long as the customer does not make any changes to the product.

Up-to-date operating instructions can also be downloaded from [www.pfeiffer-vacuum.com](http://www.pfeiffer-vacuum.com).

This manual covers products with the following part numbers:

Remote control	Part number
Remote control mbar-l/s (standard)	106688
Remote control Torr-l/s (standard)	108881
Remote control Pa·m <sup>3</sup> /s (standard)	108880
Remote control Pa·m <sup>3</sup> /s (standard + Japan)	106690
Remote control mbar-l/s (special sniffing)	112747

## 1.2 Conventions

### 1.2.1 Safety instructions

Operating manual safety instructions Pfeiffer Vacuum are based on the UL, CSA, ANSI Z-535, SEMI S2, ISO 3864 and DIN 4844 certification standards. This document describes the following information and danger levels:

#### NOTICE

##### Command or note

Command to perform an action or information about properties, the disregarding of which may result in damage to the product.

### 1.2.2 Instructions in the text

→ Work instruction: here you have to do something.

### 1.2.3 Pictographs



Warning of a displayed source of danger in connection with operation of the unit or equipment

## 2 Description

### 2.1 Product identification



Fig. 1: Identification label

P/N	Part number
S/N	Serial number
Ind.	Index

### 2.2 Supply limit

The remote control is delivered with a 5 meter cable.

It is equipped with magnets allowing the operator to place it on a metallic surface.

#### 2.2.1 Standard remote control

The standard remote control can be used with all the ASM xxx leak detectors, excepted the ASM 102 S and ASM 142 S.



Fig. 2: Standard remote control

- English screen printing: 3 models according to the unit (mbar·l/s - Torr·l/s - Pa·m<sup>3</sup>/s)
- Japanese screen printing: 1 model in Pa·m<sup>3</sup>/s
- When the operator connects the remote control to the leak detector, the leak detector unit is automatically reprogrammed with the unit of the remote control.
- The unit is memorized by the detector when the operator disconnects the remote control.
- The operator should choose the remote control according to the unit chosen for the leak detector.

### 2.2.2 Special sniffing remote control

The special sniffing remote control for sniffing leak detectors must be used only with the ASM 102 S and ASM 142 S.



**Fig. 3: Special sniffing remote control**

- English screen printing: 1 model in all the units.
- No remote control with a Japanese screen printing.
- When the operator connects the remote control to the leak detector, the remote control unit is automatically reprogrammed with the unit of the leak detector.

## 2.3 Dimensions

Dimensions	185 x 70 x 35 mm
Weight	0.370 kg

## 2.4 Interface

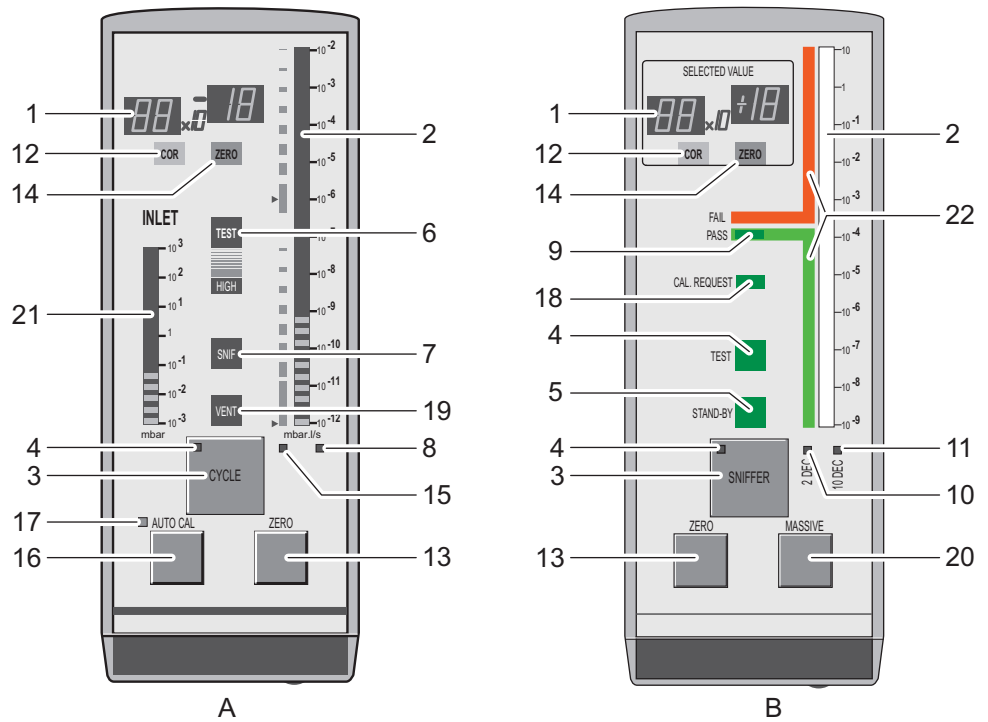


Fig. 4: Remote control designation

A	Standard remote control
B	Special sniffing remote control

Rep.	Designation
1	Digital display of the leak rate
2	Analog display of the leak rate
3	Test Start/Stand-by control key
4	Test indicator (ON when in progress)
5	Stand-by detector indicator
6	High Vacuum test mode indicator
7	Sniffing test mode indicator
8	Standard leak rate scale indicator
9	2 decades display of the leak rate indicator
10	2 decades scale of the leak rate indicator
11	10 decades scale of the leak rate indicator
12	Correction factor COR indicator
13	Zero ON/OFF control key
14	Zero function indicator
15	Zero scale of the leak rate indicator
16	Auto-calibration Start/Stop control key
17	Calibration in progress indicator
18	Requested calibration indicator
19	Inlet VENT indicator
20	Massive ON/OFF control key
21	Inlet pressure analog display
22	Screen printing associated to "pass" indicator dedicated for the use in manufacturing (green when below the threshold, red when above it).

## 3 Connection

→ Leak detector switch off, connect the remote control to the connector on the control panel : please refer to the **Operating instructions** of the detector to locate it.

## 4 Use

### NOTICE

For further details, please refer to the **Operating instructions of the leak detector.**

### 4.1 Complying the use with the aim

- The standard remote control can be used with all the ASM xxx leak detectors, excepted the ASM 102 S and ASM 142 S.
- The special sniffing remote control must be used only with the ASM102 S and ASM 142 S.
- The remote control enables to move at a remote distance functions available on the control panel of the leak detector.
- The remote control does not allow to set leak detector parameters.

Any other use is inappropriate to the product's aim.

### 4.2 Test start

#### 4.2.1 Standard remote control

- Press the **[CYCLE]** key (rep. 3 Fig. 4) to process a cycle. The key indicator (rep. 4 Fig. 4) is ON when the detector is on cycle mode.
- Press the key one more time to stop the test.

#### 4.2.2 Special sniffing remote control

- Press the **[SNIFFER]** key (rep. 3 Fig. 4). The detector is ready to make a sniffing leak search. The key indicator (rep. 4 Fig. 4) is ON when the detector is in the sniffing mode.
- Press the key one more time to shift to the Stand-by mode.

**Let the detector on the Stand-by mode when not processing a leak search (indicator switch off (rep. 5 Fig. 4)). This condition lowers the maintenance interventions on the probe.**

### 4.3 Zero function

On any remote control.

- Press the **[ZERO]** key (rep. 13 Fig. 4) to start the function. The indicator (rep. 14 Fig. 4) is ON when the function is activated.
- Press the key one more time to stop the function

On the standard remote control only.

The indicator (rep. 15 Fig. 4) displays the required scale to the leak rate reading.

## 4.4 Internal calibration

On the standard remote control only.

- Press the **[AUTOCAL]** key (rep. 16 Fig. 4) to start the function. The indicator (rep. 17 Fig. 4) is ON when the calibration is in progress.
- Press the key one more time to stop the function.

## 4.5 External calibration

On the standard remote control only.

The remote control displays only if the external calibration is in process: the indicator (rep. 17 Fig. 4) blinks when the external calibration is in progress. At the end of the calibration, the indicator (rep. 17 Fig. 4) is OFF and the correction factor COR (rep. 12 Fig. 4) is ON.

- Start the external calibration from the control panel of the leak detector.

## 4.6 Inlet vent

On the standard remote control only.

The remote control displays only if the inlet vent is in progress: the indicator **[VENT]** (rep. 19 Fig. 4) is ON when the inlet vent is in progress.

- Start the inlet vent from the control panel of the leak detector

## 4.7 Sniffing test mode

On the standard remote control only.

The remote control displays only if the sniffing test mode is selected: the indicator **[SNIF]** (rep. 7 Fig. 4) is ON when the sniffing test mode is selected.

- Set the sniffing test mode from the panel control of the leak detector.

## 4.8 Massive function

On the special sniffing remote control only.

- Hold down continuously the **[MASSIVE]** key (rep. 20 Fig. 4) to start the function. The indicator (rep. 17 Fig. 4) is ON when the calibration is in progress.
- Press the key one more time to stop the function.

When the **[MASSIVE]** function is activated:

- red blinking LED = set threshold (becomes orange if the threshold is crossed)
- green LED = leak rate < threshold
- red LED = leak rate > threshold

# 5 Disposal



### WARNING

#### Environmental protection

The product or its components must be disposed of in accordance with the applicable regulations relating to environmental protection and human health, with a view to reducing natural resource waste and preventing pollution.



## 6 Service

### **Pfeiffer Vacuum offers first-class customer service!**

- On-Site maintenance for many products
- Overhaul/repair at the nearby Service Location
- Fast replacement with refurbished exchange products in mint condition
- Advice on the most cost-efficient and quickest solution

Detailed information, addresses and forms at: [www.pfeiffer-vacuum.com](http://www.pfeiffer-vacuum.com) (Service).

### **Overhaul and repair at the Pfeiffer Vacuum Service Center**

The following general recommendations will ensure a fast, smooth servicing process:

- ➔ Fill out the "Service Request/Product Return" form and send it to your local Pfeiffer Vacuum Service contact.
- ➔ Include the confirmation on the service request from Pfeiffer Vacuum with your shipment.
- ➔ Fill out the declaration of contamination and include it in the shipment (mandatory!). The Declaration of contamination is valid for any product/device including a part exposed to vacuum.
- ➔ Dismantle all accessories and keep them.
- ➔ Close all the flange opening ports by using the original protective covers or metallic airtight blank flanges for contaminated devices.
- ➔ If possible, send the pump or unit in its original packaging.

### **Sending contaminated pumps or devices**

No devices will be accepted if they are contaminated with micro-biological, explosive, or radioactive substances. "Hazardous substances" are substances and compounds in accordance with the hazardous goods regulations (current version).

- ➔ Neutralize the pump by flushing it with nitrogen or dry air.
- ➔ Close all openings airtight.
- ➔ Seal the pump or device in suitable protective film.
- ➔ Return the pump/device only in a suitable and sturdy transport container and send it in while following applicable transport conditions.

Pump or device returned without declaration of contamination form fully completed and/or not secured in suitable packaging will be decontaminated and/or returned at the shipper's expense.

### **Exchange or repair**

The factory operating parameters are always pre-set with exchange or repaired devices. If you use specific parameters for your application, you have to set these again.

### **Service orders**

All service orders are carried out exclusively according to our general terms and conditions for the repair and maintenance, available on our website.

## 7 Spare parts

Spare parts available for sales, classified by functions are listed in this chapter.

## Spare parts

**Boîtier de commande à distance standard**  
 Standard remote control  
 Standard-Fernbedienung



Ref	Description	P/N	Qty	Remarks
J018	Cable for Remote Control 2G, 5 m	A458735	1	
J019	Cable for Remote Control 2G, 10 m	110881	1	
J020	Cable for Remote Control 2G, 15 m	110882	1	
J044	Remote Control 2G - mbar.l/s	106688	1	
J045	Remote Control 2G - Torr.l/s	108881	1	
J046	Remote Control 2G - Pa.m <sup>3</sup> /s	108880	1	
J047	Remote Control 2G - Pa.m <sup>3</sup> /s - Japan	106690	1	
J088	Remote Control LDS - mbar.l/s	112747	1	Only with L0184 eprom

## **VACUUM SOLUTIONS FROM A SINGLE SOURCE**

Pfeiffer Vacuum stands for innovative and custom vacuum solutions worldwide, technological perfection, competent advice and reliable service.

## **COMPLETE RANGE OF PRODUCTS**

From a single component to complex systems:

We are the only supplier of vacuum technology that provides a complete product portfolio.

## **COMPETENCE IN THEORY AND PRACTICE**

Benefit from our know-how and our portfolio of training opportunities!

We support you with your plant layout and provide first-class on-site service worldwide.

Ed03- Date 2015/10 - P/N: 1217740EN



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perfect vacuum solution?  
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