



## Bluetooth

Communication interface

# Operating Instructions

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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:

| Part number  | Description                                    |
|--------------|--|
| JSVA00A1Mx9x | ASM 340 Wet - Bluetooth - E/S 15 pin           |
| JSVA00A5Mx9x | ASM 340 Wet - Bluetooth - E/S 37 pin I/O - USB |
| KSBA00A1MM9A | ASM 340 Dry - Bluetooth - E/S 15 pin           |
| KSBA00A5MM9A | ASM 340 Dry - Bluetooth - E/S 37 pin I/O - USB |
| PSGB00E1MM9A | ASM 380 - Bluetooth - E/S 15 pin               |
| PSGB00E5MM9A | ASM 380 - Bluetooth - E/S 37 pin - USB         |
| Lxx0001MM9A  | ASI 30 - Bluetooth - E/S 15 pin                |
| Lxx0005MM9A  | ASI 30 - Bluetooth - E/S 37 pin - USB          |
| Lxx0007MM9A  | ASI 30 - Bluetooth - E/S 15 pin - Profibus     |
| P0482E1      | Bluetooth accessory                            |

## 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:

#### WARNING

##### Possibly imminent danger

Indicates an imminent hazardous situation that can result in death or serious injury.

#### 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 Pictographs



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



Command to perform an action or task associated with a source of danger, the disregarding of which may result in serious accidents

### 1.2.3 Instructions in the text

⇒ or → Work instruction: you must perform an operation here.

[XXXX] You must press the XXXX key on the control panel.

Screenshots are given as examples only. They can therefore vary depending on the operator's settings.

## 2 Safety precautions



### NOTICE

#### Obligation to inform

Any person responsible for installing, using or maintaining the product must first read the security instructions in this operating manual and comply with them.

→ It is the operating customer's responsibility to protect all operators against the dangers associated with the product, with the media pumped and with the entire installation.



### WARNING

#### Electric shock hazard in case of contact

When the product's circuit breaker is set at "0", some internal components still have an electrical charge.

→ Make sure that the mains connection is always visible and accessible so that it can be unplugged at any time.

→ Disconnect the power cable from all power sources before starting any work on the product.

- Only qualified personnel trained in safety rules (EMC, electrical safety, chemical pollution) may carry out the installation and maintenance described in this manual. Our service centers can provide the necessary training.
- Do not turn on the product if the covers are not in place.

## 3 Installation

### 3.1 Option

As an option, the Bluetooth module is installed in the detector during the manufacturing stage.

Placed on the frame, this label provides the user with the address of the MAC Bluetooth Module installed in the detector, which is necessary for its configuration.

|  |
|--|
| <b>HLD1302577 - RS232</b><br>Bluetooth MAC address<br>XXXXXX / None<br>Network MAC address<br>xx:xx:xx:xx:xx:xx / None |
|--|

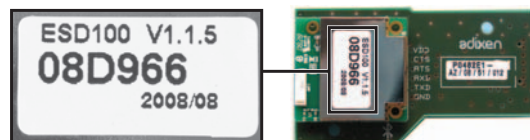
**Fig. 1:Address label MAC**

It is not necessary to remove the Bluetooth module from the supervisor board of the leak detector when the module is not used

### 3.2 Installation of the accessory

→ Make a note of the address MAC indicated on the Bluetooth module.

This is a unique number: it will help identify the module.



**Fig. 2:Address MAC on Bluetooth module**

The accessory is installed in the leak detector.



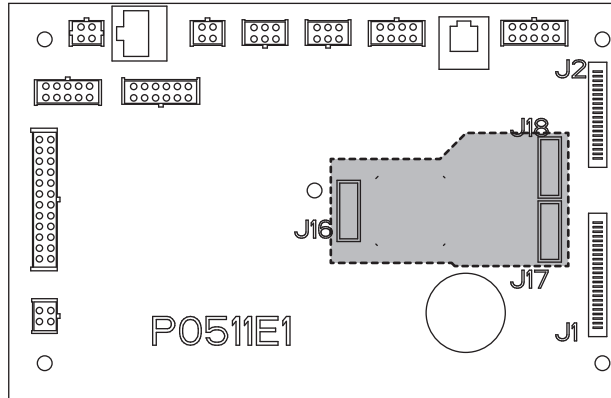
#### WARNING

##### Electric shock hazard in case of contact

When the product's circuit breaker is set at "0", some internal components still have an electrical charge.

- Make sure that the mains connection is always visible and accessible so that it can be unplugged at any time.
- Disconnect the power cable from all power sources before starting any work on the product.

- Switch off the leak detector: refer to the detector's **Operating manual**.
- Disconnect the power supply cable.
- Remove the front cover: refer to the detector's **Maintenance manual**.
- Position the Bluetooth module on the supervisor board.



**Fig. 3:Bluetooth module position**

- ➔ Put the cover back.
- ➔ Configure the module: (see 4)

It is not necessary to remove the Bluetooth module from the supervisor board of the leak detector when the module is not used.

## 4 Setting

From the "Settings" screen, press **[Advanced] [Input/Output]**.

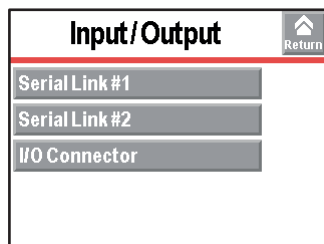


Fig. 4: Input/Output menu

### 4.1 Serial link 2

From the "Settings" screen, press **[Advanced] [Input/Output][Serial Link 2]**.

|      |                                  |
|------|----------------------------------|
| Type | ⇒ Configure the type: Bluetooth. |
|------|----------------------------------|

From the "Settings" screen, press **[Advanced] [Input/Output] [Serial Link 2] [Settings]**.

|      |  |
|------|--|
| Mode | ⇒ Configure the mode: see table below. |
|------|--|

|                  |   |
|------------------|---|
| Basic (standard) | <p>Continuous acquisition of data sent to the hyperterminal according to a defined time period.</p> <p>A command can be sent to the leak detector at any time.</p> <p>Please refer to the RS 232 operating manual before using this mode.</p> <p>Recommended mode during leak detector test procedure setting operations.</p>   |
| Spreadsheet      | <p>Variant on the Basic mode.</p> <p>Continuous data acquisition, formatted in a spreadsheet such as Excel or other similar software.</p> <p>Please refer to the RS 232 operating manual before using this mode.</p> <p>Recommended mode for the subsequent drawing of curves.</p>  |
| Advanced         | <p>Full control of the detector by a supervisor.</p> <p>Detector sends information only on the supervisor request.</p> <p>5 V power supply available.</p> <p>Please refer to the RS 232 operating manual before using this mode.</p> <p>Recommended mode for automatic systems.</p>   |
| Data Export      | <p>Export of the "tickets" via a PC, further to:</p> <ul style="list-style-type: none"> <li>• calibration with an internal/external calibrated leak,</li> <li>• calibration control with an internal leak,</li> <li>• a test.</li> </ul> <p>Please refer to the RS 232 operating manual before using this mode.</p> <p>Serial links 1 and 2 must not be simultaneously in "Data Export" mode.</p> |
| RC 500 WL        | <p>Use of a wireless remote control unit (RC 500 WL model in accessory). Range limited to 10 m.</p>   |
| PV Protocol      | <p>Protocol for compatibility with the HLTxxx detector protocol.</p> <p>Please refer to the RS 232 operating manual before using this mode.</p>   |

## 5 Use

### 5.1 Starting up

The Bluetooth modules integrated into the computers are equipped with drivers enabling the automatic creation of a virtual serial link, making it possible to manage the leak detector with the user's RS 232 programmes. Usage range is 10 m.

→ Use this COM port as RS 232.

### 5.2 Malfunctions

In case of operating difficulties, please refer to the **Malfunction** chapter of the leak detector manual.



## 6 Service

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

- On-Site maintenance for many products)
- Overhaul / repair in 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 in 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 ports flange openings by using the original protective covers or metallic airtight blank flanges for contaminated devices.
- If possible, send pump or unit in its original packaging.

### **Sending of 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 non-secured in a suitable packaging, will be decontaminated and/or returned at the shipper's expense.

### **Exchange or repaired**

The factory operating parameters are always preset 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 in our website.

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

**Are you looking for a  
perfect vacuum solution?  
Please contact us**

**Pfeiffer Vacuum GmbH**  
Headquarters  
T +49 6441 802-0  
info@pfeiffer-vacuum.de



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