SUPPLEMENTARY INFORMATION

DATA

PFEIFFER *VACUUM*

Dear customer,

Thank you for choosing a Pfeiffer Vacuum product. Your new Pfeiffer Vacuum accessory should support you in your individual application with full performance and without malfunctions. The name Pfeiffer Vacuum stands for high-quality vacuum technology, a comprehensive and complete range of top-quality products and first-class service. With this expertise, we have acquired a multitude of skills contributing to an efficient and secure implementation of our product.

Knowing that our product must not interfere with your actual work, we are convinced that our product offers you the solution that supports you in the effective and trouble-free execution of your individual application.

Please read these operating instructions before putting your product into operation for the first time. If you have any questions or suggestions, please feel free to contact info@pfeiffer-vacuum.de.

Further operating instructions from Pfeiffer Vacuum can be found in the Download Center on our website.

Disclaimer of liability

These operating instructions describe all models and variants of your product. Note that your product may not be equipped with all features described in this document. Pfeiffer Vacuum constantly adapts its products to the latest state of the art without prior notice. Please take into account that online operating instructions can deviate from the printed operating instructions supplied with your product.

Furthermore, Pfeiffer Vacuum assumes no responsibility or liability for damage resulting from the use of the product that contradicts its proper use or is explicitly defined as foreseeable misuse.

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1 About this manual

> **IMPORTANT**
> Read carefully before use.
> Keep the manual for future consultation.

1.1 Validity

This supplementary information describes important deviations from the standard product and is valid only in conjunction with the valid operating instructions.

This document applies to units with the following part numbers:

- OmniControl
  - Pfeiffer Vacuum article number **PE D2X XXX X**
  - Pfeiffer Vacuum article number **PE D4X XXX X**
  - Pfeiffer Vacuum article number **PE D5X XXX X**
  - Pfeiffer Vacuum article number **PE E5X XXX X**
  - Pfeiffer Vacuum article number **PE D6X XXX X**
  - Pfeiffer Vacuum article number **PE E6X XXX X**
  - Pfeiffer Vacuum article number **PE D7X XXX X**
  - Pfeiffer Vacuum article number **PE E7X XXX X**

1.2 Applicable documents

OmniControl Display Control Unit	Number
OmniControl operating instructions	PT 0670 BN

You can find this document in the Pfeiffer Vacuum Download Center.

2 Product description

2.1 Scope of delivery

- Data option, included in control unit's scope of delivery

2.2 Data option

The option designated "data" is intended for the connection of a USB stick and a µSD card. You can record various values of the device in which the data option is installed on these storage media.
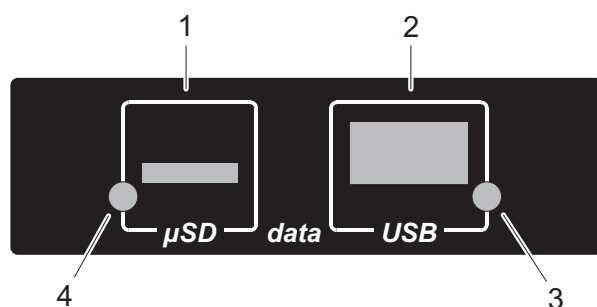

Fig. 1: Data option

1 µSD socket	3 LED at USB socket
2 USB socket	4 LED at µSD socket

	USB	µSD
File system	FAT32	FAT32
Capacity	≤ 32 GB	≤ 32 GB

Tbl. 1: Storage media requirements

i	**Priorities among storage media**
	When using both storage media at the same time, the USB stick has priority over the µSD card.

2.3 Operating mode display via LED

LEDs indicate important operating states. A differentiated error and warning display is possible in case of operations with the Pfeiffer Vacuum display and control panel.

The data interface has its own LED operating mode display.

LED status	Display	Meaning
Off	————	No storage device detected
Green illuminated	▰▰▰▰	Storage device detected and ready to record
Green flashing	▰▰▰	Storage device recording
Red illuminated	▰▰▰▰	Storage device not ready to record (e.g., faulty or full)
Red flashing	▰▰▰	Storage device detected but not ready to record because another storage device is selected

Tbl. 2: Behavior and meaning of the LED of the USB and µSD socket

2.4 Data recording

A control unit with installed data option saves operating data in a "record_001.csv" file. With each new recording, a new file is created with a corresponding incremented file name (e.g., "record_002.csv") so that no existing records on the storage device are overwritten.

record_001.csv						1
The internal test.						2
RS485:1.312	FW Version	10177				3
			RS485:1.309	RS485:1.310	RS485:1.316	RS485:1.330 — 4
		s	[Hz]	[A]	[W]	[°C]
		0	0	0	0	24
		1	0	0	0	24
		2	0	0	0	24
		3	0	0	0	24
		4	0	0	0	24
		5	0	0	0	24
		6	0	0	0	24
		7	0	0	0	24
		8	0	0	0	24
		9	0	0	0	24
		10	0	0	0	24
		11	0	0	0	24
		12	0	0	0	24
		13	6	2,039999	48	24
		14	13	2,079999	49	24
		15	26	2,139999	50	24
		16	34	2,169999	51	24

Fig. 2: Example record_001.csv file

1 File name	4 Data objects
2 Additional information	5 Measured values
3 Static data on the recording	

Record process data

► As required, define the objects you wish to record using the unit in which the data option is installed.

> **i** **Reading out the data objects to be recorded**
>
> The selected objects are saved in a "config.csv" file, which the control unit reads out when you insert the storage device. If a "config.csv" file is already present on the storage device, the unit will overwrite it when beginning a new recording or when changing the objects to be recorded.

3 Operation with the OmniControl

> ⚠ **WARNING**
>
> **Danger to life due to incorrect operation**
>
> The OmniControl and its options are not designed as safety-related controllers. Manual misuse of the OmniControl or options, or automatically executed programming of the OmniControl's auto control function may result in damage relating to materials, the environment, health, or life.
>
> ► Only use the OmniControl, options, or auto control function to control functions that will not cause damage.
> ► To ensure correct settings, ensure that the operating instructions are available to qualified personnel and operators.
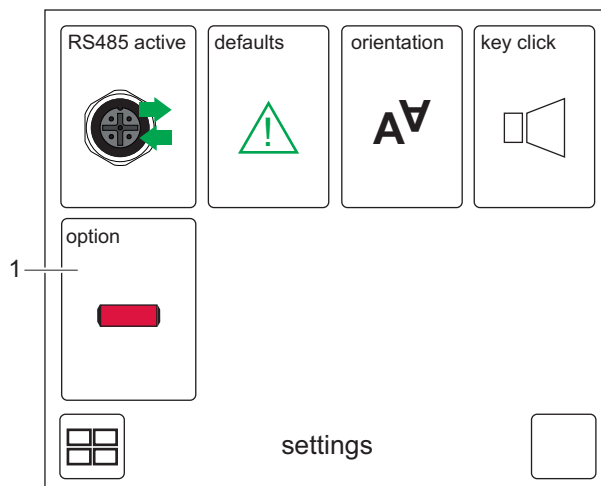

Fig. 3:   Example device settings, OmniControl 001 Mobile
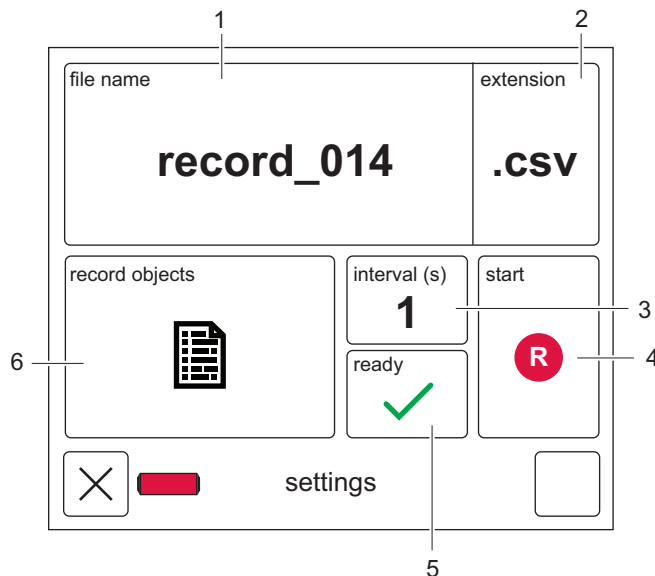
1 Installed option (option)

Fig. 4:   Example data in device settings

1 File name	4	Start/stop recording (start)
2 Extension	5	Status (ready)
3 Recording interval	6	Data objects (record objects)

Data in device settings

- File name: File name of the next/current recording (automatically assigned based on the files already on the storage device)
- Extension: Shows the file extension (fixed)
- Recording interval: Recording interval, between 1 and 3600 seconds
- Start/stop recording: Start or stop a recording
- Status (ready/not ready): Indicates the status of the storage device
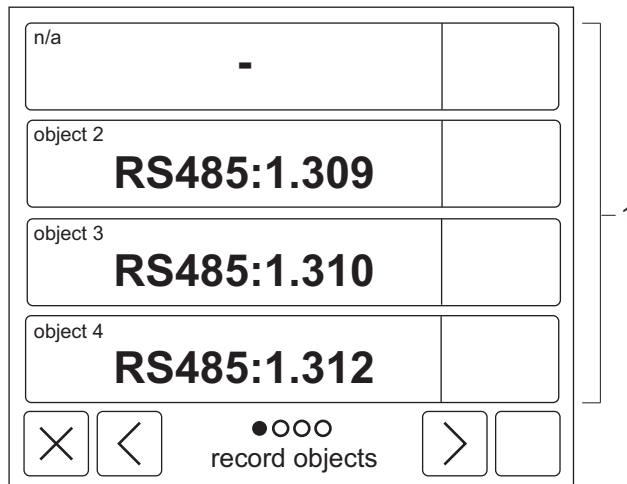- Data objects (record objects): Definition of data objects

Fig. 5: **Example data objects**

1 Data objects (object)

Data objects

- Data objects (object): Definition of data objects to be recorded (editable) read from "config.csv"
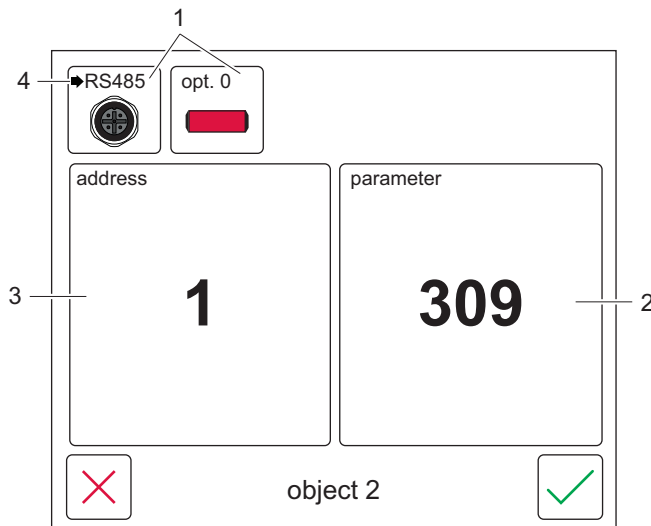
Fig. 6: **Example configuration of a data object**

1 Sources 3 Device address
2 Control parameter 4 Selected source

Configure data objects

- ► Select up to 16 objects to be recorded.
- ► Select the object source.
- ► Select the recording interval by clicking on a data object tile:
  - – once: Records static values that are only recorded at the beginning of a recording
  - – cyclic: Records values at a defined interval

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perfect vacuum solution?
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