ECO mode

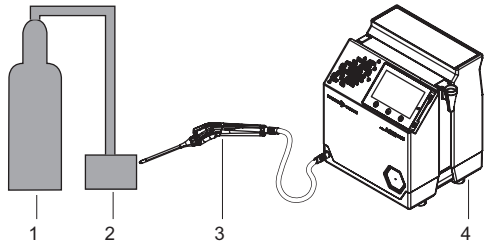
This menu enables:
- Test launch via “Getting started with the probe”.
- The test is stopped after 10 minutes of probe inactivity.
  - The probe stops automatically if the test was not stopped using the **START/STOP** button on the control panel.
  - The lifetime of the filters is preserved.

Start/Stop a test according to sniffer method

Note: ECO mode enabled.

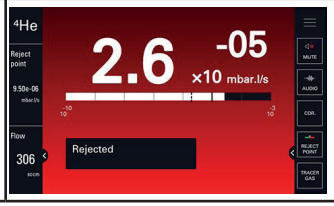
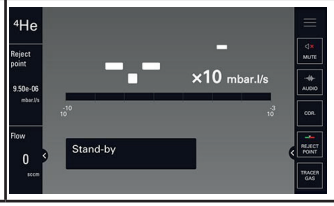
The leak detector is designed to be used only with the manufacturer’s sniffer probe (accessory at the expense of the user).

1. Install the sniffer probe before turning on the detector.
2. Set the switch/circuit breaker to **I**.
3. Wait for the detector to enter ‘Measure’ mode.
4. Test pieces according to graphic opposite.
   For the use of another method, see the leak detector operating instructions.
   - Sweep slowly and from bottom to top, with the sniffer probe the areas of the piece to be tested that may leak.
   - The test result is displayed on the control panel.



1. Tracer gas
2. Test piece
3. Sniffer probe
4. Leak detector

5. To stop the test: put the sniffer probe down (do not hold it in your hand). The detector and the sniffer probe go into Standby mode after 10 minutes: screen display **Stand-by**.
   - The test can still be stopped by pressing the **START/STOP** button on the control panel.
6. Pick up the sniffer probe to restart a test: screen display **Measuring**.

Mode ‘Measure’		Mode ‘Stand-by’
Good piece → Measuring	**Bad piece → Rejected**	
Measured leak rate < Reject point	Measured leak rate > Reject point	
		

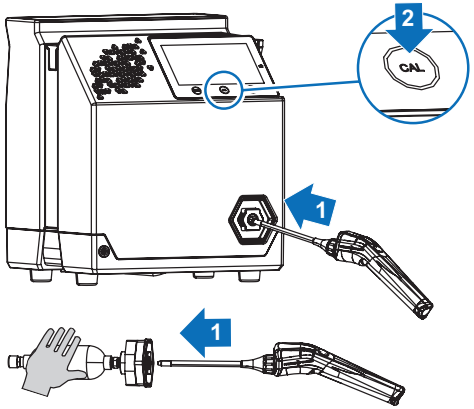
External calibration

It is advisable to perform an external calibration:
- at least once a day,
- to optimize the accuracy of the measure,
- if it is uncertain whether the leak detector is working properly,
- for intense operation: start calibration at the beginning of each work session (e.g. work in shifts, every 8 hours).

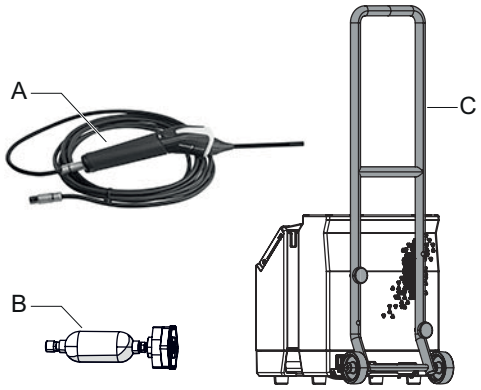
It is advisable to use a calibrated leak within the range of 10^{-5} mbar · l/s (10^{-6} Pa · m³/s), containing the set tracer gas.

1. Place the sniffer probe in the calibrated leak (calibrated leak in its storage area or manually handed).
2. Press the **CAL** button.
3. Follow the instructions given by the leak detector.

A calibration on concentration can be performed instead of an external calibration (see the leak detector operating instructions).



Accessories



	Description	Choice	Part number
A	Sniffer probe	with 2 m cable	PRB2H02HA
		with 5 m cable	PRB2H05HA
		with 10 m cable	PRB2H10HA
B	Calibrated leak [1]	100 % ^{4}He	127388
		100 % H_2	127387
C	Transport cart	-	114820

1) Value range: $3 \cdot 10^{-5} – 6 \cdot 10^{-5}$ mbar · l/s
$3 \cdot 10^{-6} – 6 \cdot 10^{-6}$ Pa · m³/s

Calibrated leak lifetime ≈ 2 years.

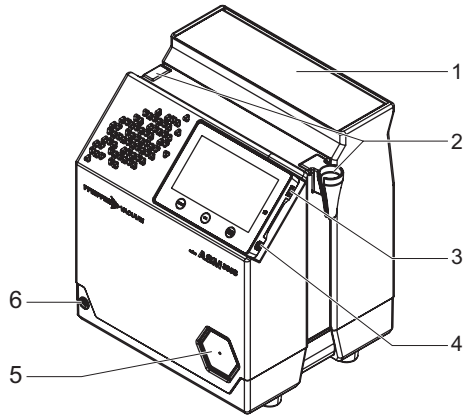
PFEIFFER VACUUM



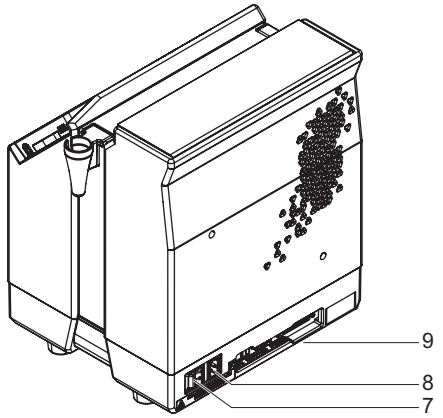
ASM 306S **Condensed manual**

For further information, consult the operating manual delivered with the leak detector.

Detector interface

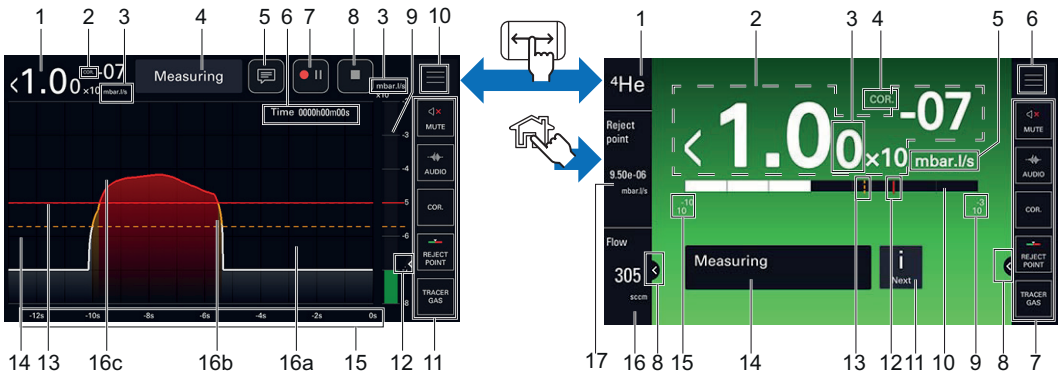


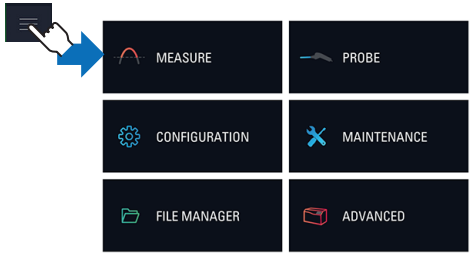
1. Storage box with partitions
2. Sniffer probe sheath fastening point
3. Connector for USB stick
4. Not used
5. Provisional cover for the calibrated leak storage area
6. Sniffer probe connector



7. Switch/Circuit breaker
8. Mains power supply
9. Communication interface according to configuration upon order

Navigation





Graph screen

Item	Function
1	Digital display of the leak rate
2	**COR** indicator: correction factor applied
3	Leak rate unit
4	Current status of the detector
5 [1)]	Comments access
6 [1)]	Total recording time
7 [1)]	Start/Pause recording
8 [1)]	Stop the recording
9	Bargraph display of the leak rate • Green bargraph: measured leak rate below the warning point • Orange bargraph: measured leak rate between the warning point and the reject point • Red bargraph: measured leak rate above the reject point
10	Access to Settings menus
11	Function key bar
12	Display/Hide an area
13	Set reject point (red plot)
14	Set warning point (orange plot)
15	Display Time
16	Plot of the tracer gas leak rate • 16a - white plot: measured leak rate below the warning point • 16b - orange plot: measured leak rate between the warning point and the reject point • 16c - red plot: measured leak rate above the reject point

1) Display according to recording settings

Main screen

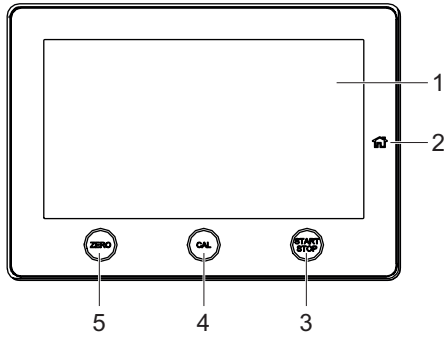
Item	Function
1 [1)]	Tracer gas
2	Digital display of the leak rate Gray screen: detector in 'Stand-by' mode, no leak rate displayed (-,-·10⁻⁻) The color of the screen varies depending on the test result: • green screen: measured leak rate below the reject point • red screen: measured leak rate above the reject point
3	2nd digit display
4	**COR** indicator: correction factor applied
5	Leak rate unit
6	Access to Settings menus
7	Function key bar
8	Display/Hide an area
9	High decade (max) of the bargraph
10	Leak rate bargraph display (color according to test result)
11	**i Next** indicator: error/warning message to be viewed
12	Set reject point (red plot)
13	Set warning point (orange plot)
14	Current status of the detector
15	Low decade (min) of the bargraph
16 [1)]	Sniffer probe flow
17 [1)]	Digital display of the reject point

1) Display only

Settings menu

Menu	Functions
[MEASURE]	• Tracer gas • Set points • Correction factor • Calibrated leak reference • Target value • Calibrated leak settings
[PROBE]	• Probe flow unit • Probe clogged • Eco mode
[CONFIGURATION]	• Unit • Date • Time • Language • Sound volume • Screen settings • Access/Password
[MAINTENANCE]	• History • Information • Last maintenance operations • Timers before next maintenance • Maintenance turbo pump & cell • Import/Export parameters
[FILE MANAGER]	-
[ADVANCED]	• Input/Output • Service

Operator interface



1. Touch screen
2. **[Home]** Main screen access button
3. Start/stop a leak test
4. Start a calibration
5. Perform a **ZERO**

Screenshot

To take a screenshot, press simultaneously on the **ZERO** and **[Home]** buttons on the control panel.

– The screenshots are always saved in the internal memory. Name of screenshots: ScreenYYYYMMDD_HHMMSS (Example: Screen20210203_143302).

Periodicity of maintenance operations

Complete table of maintenance operations: see chapter "Maintenance intervals and responsibilities" of the leak detector maintenance manual.

Frequency *	Maintenance operations to be performed
Maintenance routine	Replacement of the fan filter and the sniffer probe filters
15000 hours	Primary pump maintenance
4 years	Turbomolecular pump maintenance

* The periodicity of the indicated interventions is given for normal operating conditions. If the product operates under more difficult conditions, the periodicity of interventions should be shortened.

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