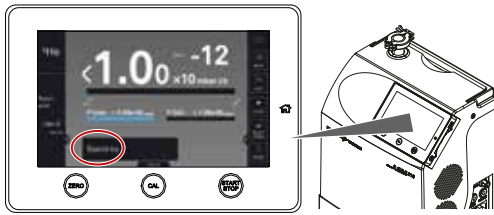


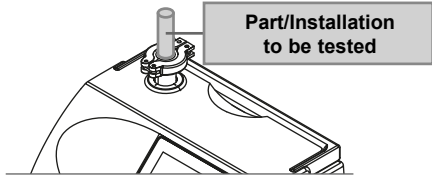
BASICS OF HELIUM VACUUM TEST

1 Detector switched on («I»): wait until "Stand-by" mode.



2 Press on the VENT key to do an inlet vent.

3 Connect the leak detector to the part or installation to be tested.

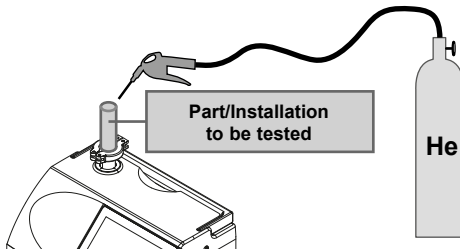


4 Start a cycle.



5 Wait Helium signal stabilization.

6 With a spray probe, spray Helium around the part or installation to be tested: start from the top.



7 Leak value measured and test result (accepted or rejected) according to the reject threshold display.



8 Stop the cycle.



CALIBRATION

It is advisable to perform an external calibration:

- at least once a day,
- to optimize the accuracy of the measurement,
- 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).

ACCESSORIES

For accessories and part numbers: see «Accessories» chapter of the leak detector Operating Instructions.

- Remote control RC 10
Part number 124193



- Inlet filter 20 μm
Part number 105841



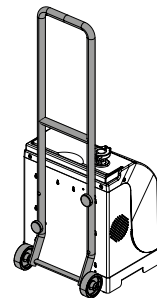
- Standard sniffer probe
Part number SNC1E1T1



- Transport case
Part number 119594



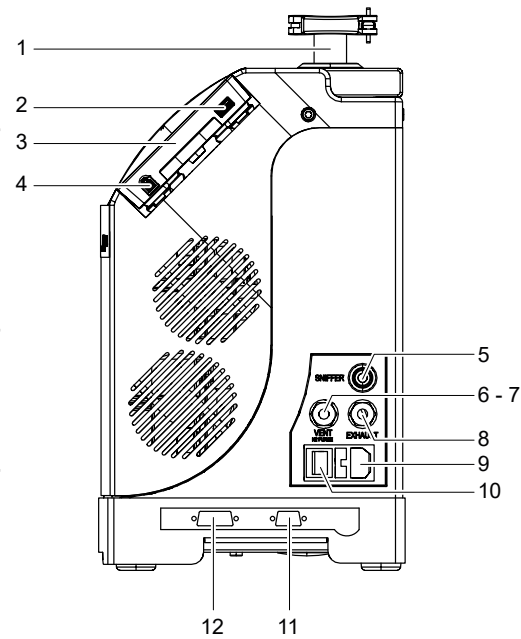
- Transport cart
Part number 122570



ASM 310 MEMO

For further information, please refer to the Operating instructions supplied with your detector.

CONNECTION INTERFACE



1	Detector inlet port (inlet)
2	Connector for USB stick ¹⁾
3	Control panel
4	RC 10 remote control connector ¹⁾
5	Standard sniffer probe connector (SNIFFER) ¹⁾
6	Purge inlet connector (neutral gas) (VENT/N2 PURGE) ¹⁾
7	Inlet vent connector (do not obstruct) (VENT/N2 PURGE) ¹⁾
8	Exhaust for primary pump with filter (EXHAUST)
9	Power supply
10	Main switch/Circuit breaker (I/O)
11	RS-232 9-pin D-Sub communication interface connector (INPUTS/OUTPUTS) ¹⁾
12	15-pin D-Sub I/O communication interface connector (INPUTS/OUTPUTS) ¹⁾

¹⁾ Accessory (at the user's expense)

MAINTENANCE INTERVALS

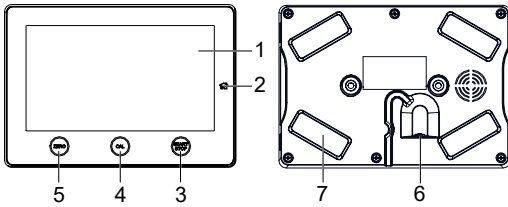
FREQUENCY	OPERATIONS
15 000 H or 2 years ¹⁾	MVP 020-3DC pump: replacement of membranes and check valves.
15 000 H or 2 years ¹⁾	Replace the ball bearings of the AMH 020 pump.
15 000 H ¹⁾ or 2 years ²⁾	Recalibration/exchange of the internal calibrated leak or calibrated leak used for calibration.
500 000 cycles or 4 years	Change the valves.
Every 2 years	Change AMH 020 pump ball bearings if the leak detector has not been used.

¹⁾ running time
²⁾ storage

Complete table of the maintenance operations: refer to «Maintenance intervals and responsibilities» chapter of the Maintenance Instructions.

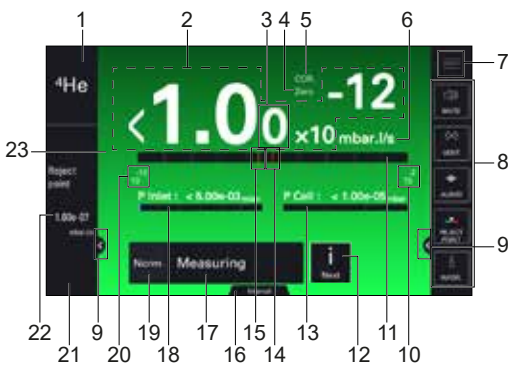
*Service intervals: The service intervals given are for applications and work rates which conform to the normal operating conditions. If the machine is operating under more difficult conditions they can be shortened.

CONTROL PANEL



1	Touchscreen
2	Main screen access button
3	START/STOP button. Test Start/Stop
4	CAL button Internal calibration, external calibration or calibration check is launched depending on the setting (see chapter "Calibration type").
5	ZERO button Autozero.
6	Detector connection cable connector
7	Fixing magnet (x4)

MAIN SCREEN



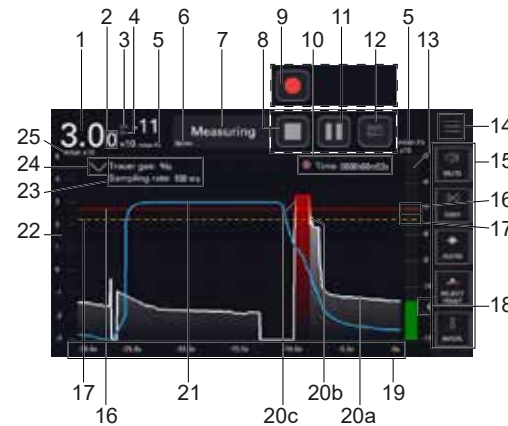
1	Tracer gas selected
2	Leak rate digital display Gray screen: detector in stand-by mode, no leak rate display (---10 ⁻)
3 ¹⁾	Display 2 nd digit
4 ¹⁾	Zero indicator: zero function applied
5 ¹⁾	COR indicator: correction factor applied
6	Leak rate unit
7	Access to the menu Settings
8	Function key bar
9	Display/Hide an area
10	High decade (max) of the bargraph
11	Leak rate bargraph display (color according to test result)
12	[i Next] indicator: error/warning message to be viewed
13 ¹⁾	Analyzer cell pressure
14 ³⁾	Set reject point (red plot)
15 ¹⁾	Warning point set (orange plot)
16	Calibration type selected
17	Current status of the detector
18 ¹⁾	Detector inlet pressure
19	Test mode selected
20	Low decade (min) of the bargraph
21 ¹⁾²⁾	Sniffer probe flow (is Sniffer method selected)
22 ¹⁾	Set reject point digital display
23	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 • gray screen: detector in "Stand-by" mode

1) Display according to detector settings
2) Display only
3) Display if test in progress

NAVIGATION



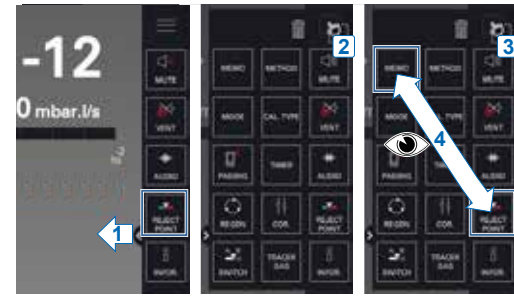
GRAPH SCREEN



1	Leak rate digital display
2 ¹⁾	Display 2 nd digit
3 ¹⁾	COR indicator: correction factor applied
4 ¹⁾	Zero indicator: zero function applied
5	Leak rate unit
6	Test mode selected
7	Current status of the detector
8 ²⁾	Stop the recording
9 ²⁾	Start recording
10 ²⁾	Total recording time • gray dot: no recordings in progress • flashing red dot: recording in progress • fixed red dot: recording paused
11 ²⁾	Pause/Resume recording
12 ²⁾	Comments access
13	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
14	Access to the menu Settings
15	Function key bar
16	Set reject point (red plot)
17 ¹⁾	Warning point set (orange plot)
18	Display/Hide an area
19	Display time
20 ³⁾	Leak rate plot • 20a - white plot: measured leak rate below the warning point • 20b - orange bargraph: measured leak rate between the warning point and the reject point • 20c - red plot: measured leak rate above the reject point
21	Detector inlet pressure
22	Detector inlet pressure range
23	Data on recording • Tracer gas selected • Sampling rate set
24	Show/hide data on recording (item 23)
25	Detector inlet pressure unit

1) Display according to detector settings
2) Display only
3) Display if test in progress

FUNCTION KEY BAR



SETTINGS MENU



[MEASUREMENT] menu

- Tracer gas
- Set points
- Correction factor
- Calibrated leak settings
- Target value

[TEST] menu

- Method
- Mode
- Probe type
- Cycle end
- Inlet vent
- Memo Function
- Zero activation
- Regeneration
- Massive mode
- Calibration check
- Calibration mode
- Start-up timer

[CONFIGURATION] menu

- Unit
- Date
- Time
- Language
- Sound volume
- Function keys
- Screen settings
- Access/Password

[MAINTENANCE] menu

- History
- Information
- Last maintenance operations
- Timers before next maintenance
- Maintenance turbo pump and cell
- Burn-in
- Internal Pirani Calibration
- Save LD Parameters

[FILE MANAGER] menu

[ADVANCED] menu

- Input/Output
- Service