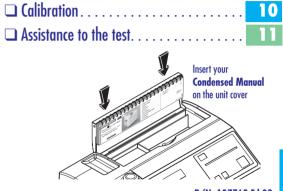
- References refer to a specific chapter of the User's Manual.
- For further information, please refer to **User's** Manual supplied with your unit.

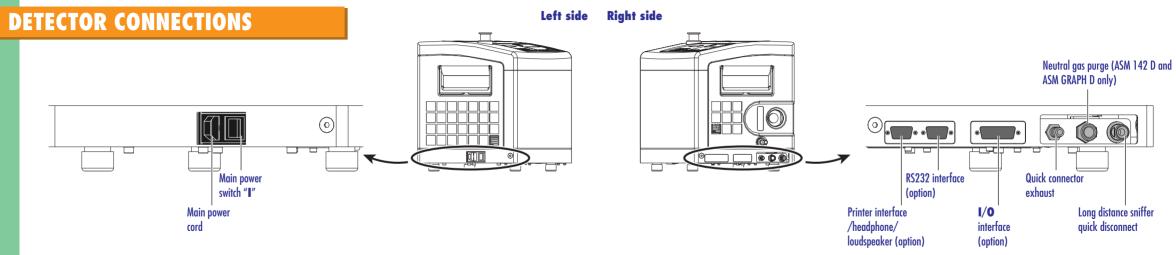




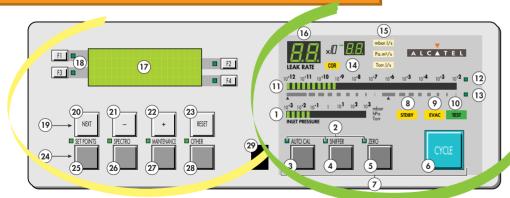
1	☐ Detector connections	2	☐ Air inlet vent
	ASM 142/142 D Operator interface	3	□ Calibration
	☐ ASM GRAPH/GRAPH D Operator interface	4	☐ Assistance to the test
	□ Start-up	5	Insert your
	☐ User interface level	5	Insert your Condensed Mo on the unit cover
	☐ Test cycles	6	of the difficover
	🗖 Helium signal analog display	7	
	🗅 Audio alarm	7	
	☐ Zero function	8	



P/N: 107768 Ed.03



OPERATOR INTERFACE ASM 142/142 D



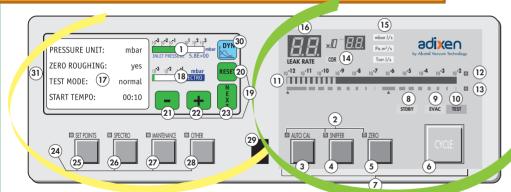
Setting and maintenance part

Operation part

- Inlet port pressure analog display
- Control and menu selection indicators (ON when activated)
- 3 Auto-calibration START/ABORT control key
- 4 Sniffing mode ON/OFF control key
- 5 Auto-zero ON/OFF control key
- 6 Cycle START/STOP control key
- 7 Control keys (4 keys)
- 8 Standby ON/OFF indicator 9 Evacuation ON/OFF indicator
- 10 Test ON/OFF indicator
- 1 Helium signal analogic display
- 12 Helium signal analogic scale ON/OFF indicator
- Helium signal Zero scale ON/OFF indicator
 Correction factor COR indicator (applied to digital display)
- 15 Units ON/OFF indicator
- 6 Helium signal digital display
- 7 Alphanumeric display (4 lines x 20 characters)

- Parameter function keys (1 key per display line)
- Modification access keys (4 keys)
- NEXT: next display/parameter circular function
- 21/22 Plus or minus value adjustment, parameter selection, audio volume adjustment kevs
 - RESET of previously displayed values (cancels temporary inputs)
 - Menu selection access key (4 keys)
 - SET POINT menu selection key
 - 6 SPECTRO calibration and analyzer cell configuration menu selection key
- 7 MAINTENANCE menu selection key
- 8 OTHER menus selection key (test mode selection, inlet VENT selection, date/time)
- Remote control connection

OPERATOR INTERFACE ASM GRAPH/GRAPH D



Setting and maintenance part

Operation part

- Inlet port pressure analog display
- Control and menu selection indicators (ON when activated)
- 3 Auto-calibration START/ABORT control key
- 4 Sniffing mode ON/OFF control key
 5 Auto-zero ON/OFF control key
- 6 Cycle START/STOP control key
- 7 Control keys (4 keys)
- Standby ON/OFF indicator
- 9 Evacuation ON/OFF indicator
- 10 Test ON/OFF indicator
 11 Helium signal analogic display
- 12 Helium signal analogic scale ON/OFF indicator
- 13 Helium signal Zero scale ON/OFF indicator
- 14 Correction factor COR indicator (applied to digital display)
 15 Units of measurement selection
- 16 Helium signal digital display
- Menu display (4 lines)

- Spectro pressure analog display Modification access keys (4 keys)
- RESET: next display/parameter circular function
- 21/22 Plus or minus value adjustment, parameter selection, audio volume adjustment keys
 - NEXT of previously displayed values (cancels temporary inputs)
 - Menu selection access key (4 keys)
 SET POINT menu selection key
- SPECTRO calibration and analyzer cell configuration menu selection
- 7 MAINTENANCE menu selection key
- 7 MAINTENANCE INFINO Selection Rey 8 OTHER menus selection key (test mode selection, inlet VENT selection, date/time)
 - Remote control connection: connect if before switching on the detector

Graphic interface selection key Color touch screen 4

START-UP





- Connect the main cable from the detector to the proper power outlet.
- 2 Depress the main switch to position "1". On the control panel, the indicator lights flash.
- **3** The following screens are shown on the LCD.



- 4 When the detection pump reaches its nominal speed, the unit autocalibrates itself.
- 5 When calibration is completed, the unit is ready to start a cycle.

F1	READY FOR CYCLE	_
F3	INLET VENT : off	F2
		F4
	SUDEY	

USER INTERFACE LEVEL

The detector offers 4 user interface levels for this section to accomodate any application requirements.

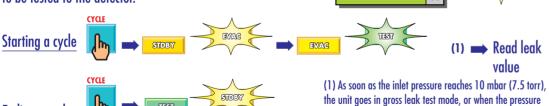
	Setting and maintenance part	User part	
LEVEL ①	This level has very limited information on the alphanumeric display (LCD). This level is generally selected for production types of applications.	No access to control keys (Cycle key included).	
LEVEL ②	This level allows the operator to visualize some parameters without the possibility of making any changes. Same as Level (1), this level is usually selected for production types of applications.	Access to all the control keys.	
VEL ③	Same as level 20 but with possibility to set some parameters. This level is generally selected for maintenance applications.		
EVEL 4	This level allows access to all the parameters and is generally used for settings all the parameters. Note: When switching from level 10 to any other level, the switch can be performed without using the password. This level is generally selected for R&D applications.		

To know your user interface level and to change it C 120

TEST CYCLES

☐ HARD VACUUM TEST MODE

Leak detector in stand-by mode; connect the part or assembly to be tested to the detector.



F1 READY FOR CYCLE

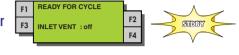
F3 INLET VENT : off

leak test mode.

has reached 5.10⁻¹ mbar (0.37 torr), the unit goes in fine

□ SNIFFING TEST MODE

Leak detector in stand-by mode; connect the long distance sniffer probe to the quick connector.



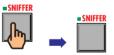
Starting Sniffing test mode



SNIFFING MODE
PLEASE WAIT...
F2
F3
F4

SNIFFING MODE
F2
F4

Ending Sniffing test mode







He SIGNAL ANALOG SCALE DISPLAY

- ☐ How to read the He signal analog scale?
 - Leak detector in hard vacuum or sniffing

 test mode and zero function not activated. reject point is visualized by a blinking led.
 - if the leak value exceeds the reject point, the leds will turned red (the blinking led will turn orange).
 - if the leak value remains under the reject point, the leds will remain green.

Example : Reject point = 1 x 10⁻⁷ mbar.l/s



AUDIO ALARM

- ☐ The audio alarm offers 2 modes of operation. They are both linked to the zero function.
 - > zero function not activated: the audio alarm starts when the He signal exceeds a fixed set point: this set point is programmable.
 - the audio alarm is modulated with respect to the position of the helium → zero function activated: background.

To active/deactive audio alarm C 520

ZERO FUNCTION

- □ **Purpose**: the zero function offers the operator the possibility to detect small leaks that are smaller than the helium background.
- ☐ Activation of zero function: connect the part or installation to be tested.

on the digital display, the detector He background displays.

→ the digital display becomes 0.0E-00. On and after this time, it will display only Helium variation.

Operator could find an example in the User's Manual C 540

□ Deactivation of zero function:

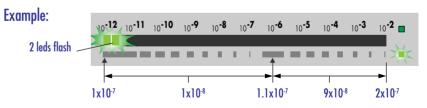


the digital display shows the standard He signal.

Use Helium signal analog scale.

☐ Analog display:

- When zero function is activated, use the Helium signal zero scale.
- The He signal zero scale displays 2 leds signal centered around the zero value.

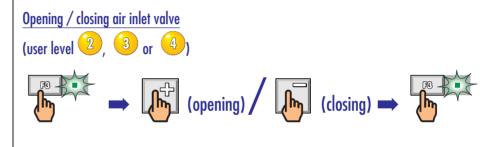


AIR INLET VENT

- □ Purpose: the air inlet valve vents the inlet of the detector back to atmosphere at the end of the test.
 - The indicator "inlet valve = off" indicates that the venting valve is not activated (= closed) at the end of cycle.



The setting by default is «off» (= valve closed).



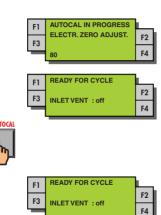
To open/close air inlet valve with user level 1 500

CALIBRATION

☐ Internal: The internal autocalibration is automatically activated during the start-up process. It doesn't require any operator action. Thanks to the initial autocalibration, the leak detector can be immediately operational.

Internal autocalibration on request: it can be started by the operator whenever needed (the unit has to be off-cycle).

The result of the autocalibration process is displayed.



■ **External**: The external autocalibration allows direct readout in cases of operation with an auxiliary pumping system.

To perform an external calibration C 303

ASSISTANCE TO THE TEST

PREVENTION

The leak detector offers to the user 4 interesting functions in order to improve test.

- **MEMO FUNCTION**..... Memorization of the latest He signal measured after depressing the CYCLE key at the end of the cycle.
- □ CYCLE END Automatic control of the roughing and measure timers.
- BARGRAPH ZOOM Display a greater resolution of the He signal around the reject point.

 ON THE REJECT POINT
- ☐ **HELIUM POLLUTION** ... Device that prevents the unit from getting polluted with Helium.

☐ Memo function To active/deactive this function and adjust display time of the leak value ☐ € 550