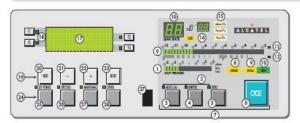
OPERATOR INTERFACE



- 1 Inlet port pressure analog display
- 2 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
- 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 ON/OFF indicator
- 16 Helium signal digital display
- 17 Alphanumeric display (4 lines x 20 characters)
- 18 Parameter function keys (1 key per display line)
- 19 Modification access keys (4 keys)
- 20 NEXT: next display/parameter circular function
- 21/22 Plus or minus value adjustment, parameter selection, audio volume adjustment keys
 - 23 RESET of previously displayed values (cancels temporary inputs)
 - 24 Menu selection access keys (4 keys)
 - 25 SET POINT menu selection key
 - 26 SPECTRO calibration and analyzer cell configuration menu selection key
 - 27 MAINTENANCE menu selection key
 - 28 OTHER menus selection key (test mode selection, inlet VENT selection, date/time)
 - 29 Remote control connection (accessory)

HELIUM SIGNAL ANALOG DISPLAY

Leak detector in hard vacuum or sniffing test mode and zero function not activated.

How to read the He signal analog scale?

- * 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 geen.



reject point = 1.10⁷ mbar.l/s



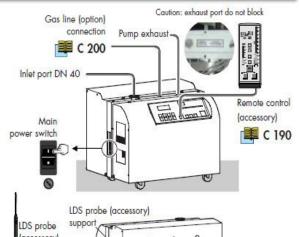
ALCATEL

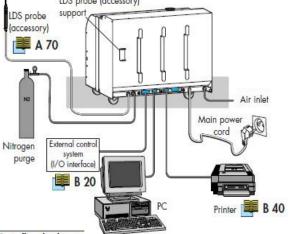
CONDENSED MANUAL ASM 182 TD+

References prefer to a specific chapter of the User's Manual.

For further information, please refer to the User's Manual supplied with your unit.

DETECTOR CONNECTIONS





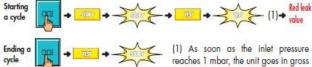
Controlling the detector with a PC computer through the RS 232 interface: Refer to the RS 232 User's Manual delivered with your detector.

TEST CYCLES

Hard vacuum test mode

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





reaches 1 mbar, the unit goes in gross leak test mode or when the pressure has reached 2.10² mbar, the unit goes in high sensitivity test mode.

Sniffing test mode

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

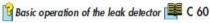






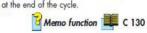


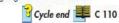




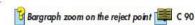
ASSISTANCE TO THE TEST

The ASM 182 TD+ leak detector offers to the user 5 interesting functions in order to improve test.





Bargraph zoom onDisplay a greater resolution of the He signal around the reject the reject point point.

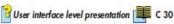




USER INTERFACE LEVEL

The ASM 182 TD+ offers 4 levels of user interface to accommodate any application requirements. All 4 levels of user interface are acessible by means of a four-digit pass-

- Level 1 This level has very limited information on the alphanumeric display (LCD). This level is generally selected for production types of applications.
- Level 2 This level allows the operator to visualize some parameters without the possibility of making any changes. Some as level 1, this level is usually selected for production types of applications.
- Level 3 Some as level 2 but with the possibility to set some parameters such as test mode, vacuum and sniffing corrections status, audio alarm and air inlet. This level is generally selected for maintenance applications.
- Level 4 This level allows access to all parameters and is generally used for settings all the parameters.



CALIBRATION

The internal calibration is automatically activated during the start-up process. It doesn't require any

Thanks to the initial auto-calibration, the leak detector can be immediately operationnal.

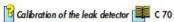
The result of the auto-calibration process is displayed.

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



External

The external auto-calibration allows direct readout in cases of operation with an auxiliary pumping system.



AIR INLET

At the inlet of the detector, 2 functions are proposed to the operator:

- connection to the vent air function.
- connection to the gas line option.

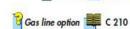
The indicator "inlet: vent off" indicates that the venting valve is not activated (- closed) at the end of the cycle.

The setting by default is "vent off" (- valve closed)



Connection to the gas line option:

Refer to the User's Manual.



ZERO FUNCTION

The zero function offers the operator the possibility to detect small leaks that are smallers than the helium background.

The zero function could be activated manually by the operator or automatically (He background suppression).

Manual activation of the zero function

Connect the part or installation to be tested.



On the digital display, the ASM 182 TD+ He background displays.

The digital display becomes 0.0E-00. On and after this time, it will display only He variation.

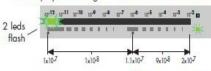
Manual deactivation of the zero function



Automatic activation/deactivation of the Helium background suppression Refer to the User's Manual.

Analog display

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



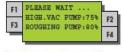


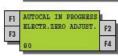
START-UP

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



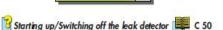
- 4 When the TMP pump reaches its nominal speed, the unit autocalibrates itself.
- cvcle.





5 - When calibration is completed, the unit is ready to start a





AUDIO ALARM

The audio alarm offers 2 modes of operation. They are both linked to the zero func-

Zero function not activated

The audio alarm start when the He signal exceeds a fixed set point: this set point is

Zero function activated

The audio alarm is modulated with respect to the position of the helium background.



INTERVAL MAINTENANCE OPERATIONS

FREQUENCY*	OPERATION	SEE CHAPTER
4 000 H(1) or 6 months(2)	Clean the vacuum lines, the valves and the gauges with alcohol - Dust the electronic boards and the fans - Clean filters (inlet filters,air inlet filter)	E 30
	Partial maintenance of the analyzer cell: Replace analyzer cell filaments and collec- tor. Clean the analyzer cell with alcohol (this cleaning may be necessary in case of gene- ral internal contamination creating insula- ting deposits).	■ E 60
8 000 H(1) or 1 year(2)	Sniffer probe filter replacement if used.	E 80
	Pirani gauge adjustment.	Contact customer service
12 000 H(1)	Regrease the molecular pump MDP 5011. Regrease the turbomolecular pump TMP 5154.	E 30
16 000 H(1) or 2 years(2)	Recalibration/exchange of the internal calibrated leak.	E 70
22 000 H(1) or 1 year(3)	Replace the ball bearings and the seals of the molecular pump and turbomolecular pump.	E 30
	Complete maintenance Dry pump (ACP 20/28).	Contact customer service
500 000 cycles	Clean the valves.	E 85
(1) running time	*Service intervals: The service intervals g	iven are for

- (2) running time or storage
- (3) storage

applications and work rates which conform to the normal operating conditions. If the machine is operating under more difficult conditions they can be shortened.



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