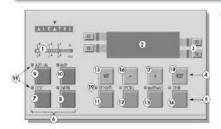
OPERATOR INTERFACE

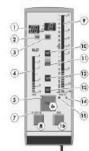


Control panel

- Spectro pressure status indicator
- Alphanumeric display (4 lines x 20 characters)
- Parameter function keys (1 key per display line)
- Modification keys (4 keys)
- Menu selection access keys (4 keys)
- Control keys (4 keys)
- Cycle Start/Stop control key
- Sniffing mode ON/OFF control key
- Autocalibration Start/Abort control key
- Mute: Audio signal ON/OFF control key
- 11 SET POINT menu selection key
- 12 SPECTRO calibration and analyzer cell configuration menu selection key

- 13 MAINTENANCE menu selection key
- 14 OTHER menus selection key (test mode selection, inlet VENT selection. date / time)
- 15 NEXT: next display/parameter circular function
- 16 &17 Plus or minus value adjustment. parameter selection, audio volume adjustment keys
 - 18 RESET of previously displayed values (cancels temporary inputs)
- 19 Control and menu selection indicators (ON when activated)

Remote control



- 1 Helium Signal digital display
- 2 Correction factor COR indicator (applied to digital display)
- 3 Zero function indicator (applied to analog + digital display)
- 4 Inlet port pressure analog display
- 5 Test cycle ON indicator (ON when activated)
- 6 Cycle Start/stop control key
- 7 Calibration in progress indicator: steady = internal autocal. blinking = external autocal.
- 8 Autocalibration start control key
- 9 Helium signal analogic display
- 10 Test ON indicator (Gross leak, Normal, High Sensitivity)
- High Sensitivity test ON indicator
- 12 Sniffing test mode ON indicator
- 13 Inlet VENT ON indicator
- 14 Helium signal standard scale ON indicator
- 15 Helium signal Zero/Zoom scale ON indicator
- 16 Zero/Zoom ON/OFF control key

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.

Example: reject point = 1.107 mbar.l/s



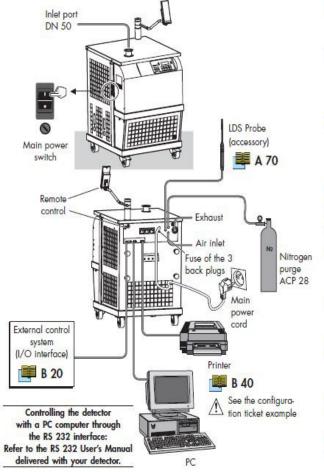
ALCATEL

CONDENSED MANUAL ASM 192 T2D+

References refer 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

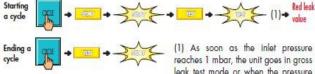


TEST CYCLES

Hard vacuum test mode

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





has reached 2.10⁻² 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.

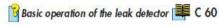












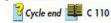
ASSISTANCE TO THE TEST

The ASM 192 T2D+ leak detector offers to the user 5 interesting functions in order to impro-

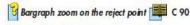
Memorization of the latest He signal measured after depres-Memo function sing the CYCLE key at the end of the cycle.



, Automatic control of the roughing and measure timers.



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



....Device that prevents the unit from getting polluted with Helium. Helium pollution prevention E C 140

Helium backgroundAutomatic zero function suppression

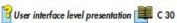




USER INTERFACE LEVEL

The ASM 192 T2D+ 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 VALUE

TEMPERATURE: 29°C F3 TARGET VAL: 1.27E-07

PLEASE WAIT.

F1 READING FOR CYCLE

F4

F2

F4

CALIBRATION

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

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

The operator can connect the leak detector to the vent air function.

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).





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 192 T2D+ He background displays.

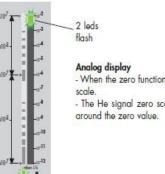


The digital display becomes 0.0E-00. On and after this time, it will display only He variation.



Manual deactivation of the zero function

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

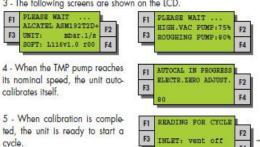


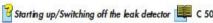
- When the zero function is activated, use the He signal zero
- The He signal zero scale displays 2 leds signal centrered



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.





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 start when the He signal exceeds a fixed set point: this set point is programmable.

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 collector. 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 5006 HDS. Regrease the turbomolecular pump TMP 5154. Regrease ATP 100 pump.	E 40
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. Replace the ball bearings and the seals of the ATP 100 pump.	E 40 E 45
	Complete maintenance Dry pump (ACP 20/28).	Contact customer service
500 000 cycles	Clean the valves.	E 85
		102002

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

*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.



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