

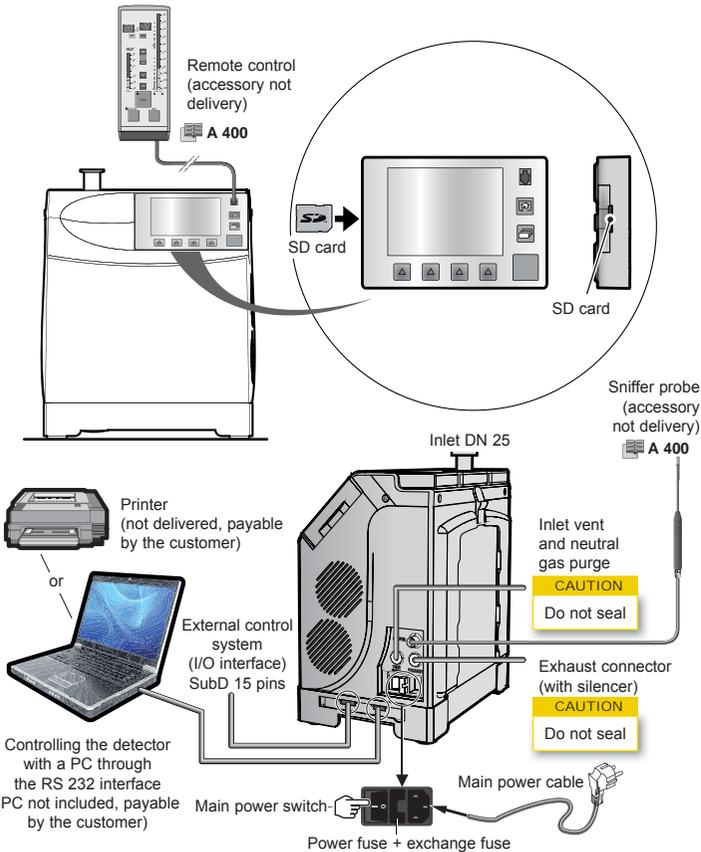


PFEIFFER VACUUM

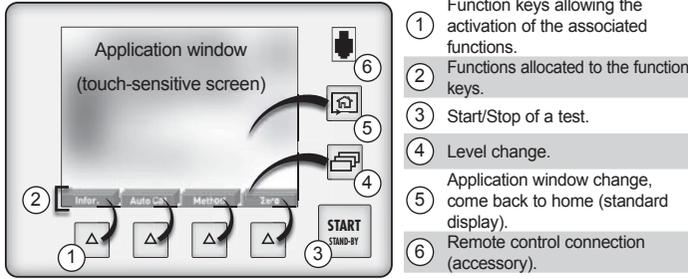
CONDENSED MANUAL ASM 310

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

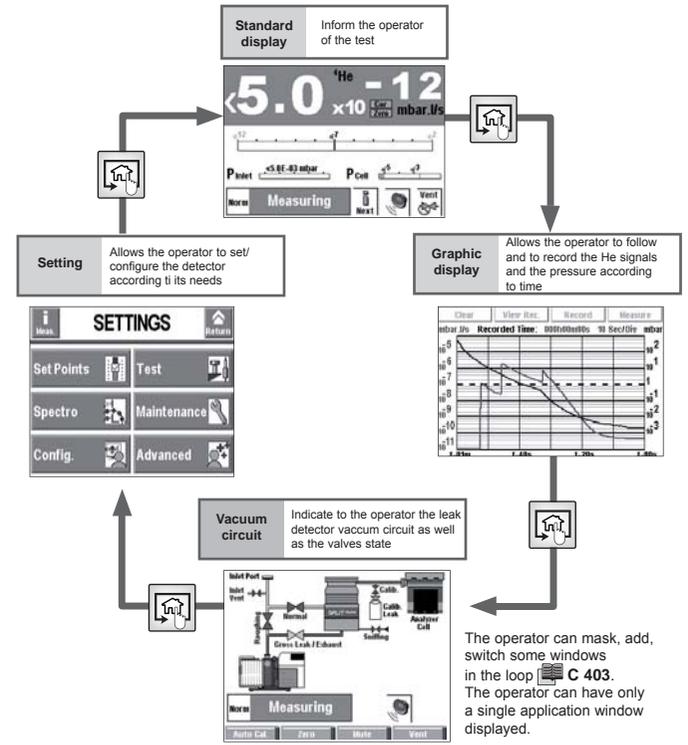


OPERATOR INTERFACE



- Change the application window (come back to home).
 - Change the level.
 - Start the function allocated.
- Start/Stop the test**
Place the blank-off flange on the detector inlet (detector state on delivery).
- Start the test.
 - The helium signal displays the measured value : it corresponds in our case to the detector background.
 - Stop the test.
 - To remove the blank-off flange, do an air inlet.

APPLICATION WINDOWS



ASSISTANCE TO THE TEST

Hard vacuum test mode	Sniffing test mode
<p>Method Select the hard vacuum test mode (C 402)</p>	<p>Method Select the sniffing test mode (C 402)</p>
<p>Connect the part to be tested to the leak detector inlet port or put the part in the test chamber connected to the leak detector.</p>	<p>While the leak detector is in stand-by, connect the sniffer probe (accessory to be purchased separately) to the sniffer port of the leak detector.</p>
<p>Reject Point Select the reject point (C 401)</p>	<p>START STAND-BY Start the test</p>
<p>The leak value measured displays.</p>	<p>START STAND-BY Stop the test</p>
<p>The detector returns automatically to stand-by mode.</p>	<p>If Memo function is activated and a printer is connected to the detector, a test ticket will be printed automatically after the test (C 406)</p>

MAIN FONCTIONS

Set Points **C 401**

- 2 adjustable set points:
- reject set point in hard vacuum,
 - reject set point in sniffing.
- Define the acceptance threshold of the good/bad parts:
- leak value measured ≤ reject set point => part accepted.
 - leak value measured > reject set point => part rejected.



Audio alarm set points **C 401**

Digital voice informs the operator about the detector state or the actions to do. The audio alarm informs the operator that the reject set point was crossed. The level varies from 0 to 8 (0 to 90 dB).



Stop simultaneously the audio alarm and the digital voice with the key **Muet**.

Autocalibration **C 406**

It allows to check that the detector is adjusted to detect the selected tracer gas and display a correct leak value.

By default, autocalibration is set ON and the internal calibrated leak is selected to allow a quick leak detector autocalibration.

Autocal = ON : the detector will be automatically calibrated at each switching on. At any time, the operator can start an autocalibration (**Auto Cal**).

«SETTING» MENUS ARBORESCENCE

Set Points

Set Points		Return
Audio :	<input checked="" type="checkbox"/> 3	
Digital Voice :	<input checked="" type="checkbox"/> 4	
Pollution :	<input checked="" type="checkbox"/> 1.00E-05	
Hard Vac. Set Points		
Sniffer Set Points		

Spectro

Spectro		Return
Tracer Gas :	Helium	
Fil. Selected :	#1	
Filament :	On	
Fil. Status :	100%	
Calibrated Leak		

Config.

Config.		Return
Unit / Date / Language		
Function Keys		
Application Windows		
Screen Settings		
Access / Password		

Test

Test		Return
Method :	Hard Vacuum	
HV Cor. :	<input checked="" type="checkbox"/> 1.00E+00	
Mode :	High Sens.	
Cycle End		
Inlet Vent		
Test		Return
Memo. Function		
Zero Activation		
Bypass Option		

Maintenance

Maintenance		Return
Detector :	223 h	
Timers		
Detector Informations		
Pumps Informations		
Events History		
Maintenance		Return
Calibrations History		

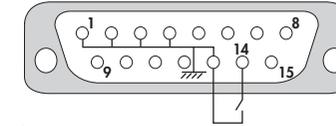
Advanced

Advanced		Return
Leak Detection		
Input / Output		
SD Card		
Service		

INLETS / OUTPUTS

Connector

The connector wiring Sub D 15 pin male is delivered with the leak detector. It is recommended to use a shielded cable which is grounded on the connector cap.



Inputs

14 Starting-up cycle

Outputs

9 Analog output 16 bit 0/10 V (mantissa)
 10 Analog output 16 bit 0/10 V (exponent)
 8 Loudspeaker +
 15 Loudspeaker -

INTERVAL MAINTENANCE OPERATIONS

FREQUENCY*	OPERATIONS	SEE SHEET
1 000 H ⁽¹⁾	Clean filters (inlet filters, air inlet filter).	-
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. Partial maintenance of the analyzer cell. Clean the analyzer cell with alcohol (this cleaning may be necessary in case of general internal contamination creating insulating deposits).	E 430
	Pirani gauge adjustment.	C 406
8 000 H ⁽¹⁾ or 1 year ⁽²⁾	Sniffer probe filter replacement if used.	G 200
15 000 H ⁽¹⁾	MD1 pump: replacement of membranes and check valves.	E 710
15 000 H ⁽¹⁾	Replace the ball bearings of the ATH 31 pump.	CS
15 000 H ⁽¹⁾ or 2 years ⁽³⁾	Recalibration/exchange of the internal calibrated leak or calibrated leak used for calibration.	E 413
500 000 cycles	Change the valves.	E 530
Every 2 years	Change ATH 31 pump ball bearings if the leak detector has not been used.	CS

CS : Please contact Customer Service

(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.