Immediate commands

1. COMMON FUNCTIONS	
Reset the default values	!DE C R
2. HARD VACUUM TEST MODE	
Calculate the external correction coefficient and validate it	!AE C R
3. SNIFFING TEST MODE	
Calculate the external correction coefficient and validate it	!AE C R
4. CALIBRATION	
4.1 Hard vacuum test	
Start an autocalibration with internal calibrated leak	!AC C R
Stop an autocalibration with internal calibrated leak	!AS C R
External calibrated leak connected and opened	!AC1 C R
External calibrated leak connected and closed	!AC2 C R
4.2 Sniffing test	
Start an autocalibration with internal calibrated leak	!AC C R
Stop an autocalibration with internal calibrated leak	!AS C R
External calibrated leak connected and opened	!AC1 C R
External calibrated leak connected and closed	!AC2 C R
External calibrated leak rate stable	!AC3 C R
Background stable	!AC4 C R
5. ANALYZER CELL	
Filament selection (swap to the other filament)	!SW C R
7. SERVICE	
Memorized defaults reset	!RE C R
Warnings reset	!WA C R

Request long commands

1. COMMON FUNCTIONS	
1.1 Detector parameters	
Request the values of the hour counters	?CH C R
Request the current status of the detector	?CY C R
Request the date	?DA C R
Request the visual information of the front panel	?HMI C R
Request the lower display limit value displayed for the signal	?LDL C R
Request the software version	?MD C R
Request the password	?PW C R
Request if the detector is ready to test	?RDY C R
Request the detector shutdown status	?SHD C R
Request the language	?SP C R
Request the detector status	?ST C R
Request the current hour	?TI C R
Request the time of the latest shutdowm	?TIA C R
Request the time of the latest start-up	?TIM C R
Request the HLD status string digits	?TR C R
Request the measurement unit used	?UN C R
Request the Purge valve status	?VPU C R
1.2 Helium measure	
Request the value of the calibrated helium signal (corrected)	?LE C R
Request the value of the calibrated helium signal (not corrected)	?LE2 C R
1.3 Sound	
Request the ON/OFF status of the loudspeaker and external head-phone	?HP C R
Request the sound status	?SO C R
Request the digital voice status	?SY C R
1.4 Zero	
Request the zero status	?AZ C R
Request the zero reference status	?SZ C R
Request the bargraph display centered on the reject point status	?ZR C R
Request the parameters of the zero function status	?ZB C R
1.5 Pressure	
Request the gauge status	?GAU C R
Request the external gauge status	?GAUM C R
Request the external gauge full scale	?GAUMS C R
Request the external gauge voltage	?GAUMT C R
Request the gauge full scale	?GAUS C R
Request the gauge voltage	?GAUT C R
Pressure of the external gauge	?PEM C R
2. HARD VACUUM TEST MODE	
2.1 Air inlet	
Request the status of the vent valve	?IV C R
Request the parameters of the vent function	?IVP C R
Request if the vent is set in automatic or manual at the end on the cycle	?VT C R
2.2 Cycle parameters	
Request the test mode selected	?CYT C R
Request the hard vacuum external coefficient	?HV C R
Request the inlet pressure valve	?PE C R
Request the cycle counter	?MCC C R
Request the test method used in hard vacuum	?TST C R
2.3 Pressure threshold	
Request the gross leak mode pressure threshold	?P1 C R
Request the gross leak mode pressure threshold in the current unit	?P1U C R
Request the normal pressure threshold	?P2 C R
Request the normal mode pressure threshold in the current unit	?P2U C R
Request the high sensitivity pressure threshold	?P3 C R
Request the high sens mode pressure threshold in the current unit	?P3U C R
2.4 Results	
Give the result of the latest test	?RE C R
2.5 Helium threshold	
Request the threshold value of the current test mode	?S1 C R
Request the threshold value of the hard vacuum test mode	?S1H C R
2.6 Other functions	
Request the depollution parameters	?AA C R
Target value in hard vacuum test	?AEH C R
Request the Background max	?AR C R
Request the parameters of the automatic cycle end in sniffing test function.	?CAS C R
Request the parameters of the auto cycle end function	?CA C R
Request the Massive mode status	?MAS C R
Request the memo function status	?ME C R
Request the Bypass option status	?PAD C R
Request the status of the Regeneration or Burn-in function	?REG C R
3. SNIFFING TEST MODE	
3.1 Helium threshold	
Request target value in sniffing test	?AES C R
Request the threshold value of the current test mode	?S1 C R
Request the threshold value of the sniffing test mode	?S1S C R
3.2 Test parameters	
Request the sniffing external coefficient	?SN C R
3.4 LDS probe	
Request the sniffer probe clogged threshold value	?S6 C R
Request the probe type	?SPR C R
Request the Smart probe clogged threshold value	?SSS C R
3.6 Other functions	
Request the status of the Regeneration or Burn-in function	?REG C R
4. CALIBRATION	
Request the autocalibration validation status	?AC C R
Request the current target value for an autocalibration	?AC3 C R
Calibration Acknowledge	?CAK C R
Request the parameters of the autocalibration automatic request	?ACA C R
Request the parameters of the dynamic calibration	?CV C R
Request the value of the internal calibrated leak written on the label	?FE C R
Select the calibrated leak for autocalibration	?FEP C R
Request the parameters of the calibrated leak used for the internal autocalibration (internal or external)	?FEM C R
Request the tracer gas used	?GZ C R
Request the temperature	?TE C R
Request the time of the latest autocalibration	?TIC C R
5. ANALYZER CELL	
Request the zero status	?AUZ C R
Request the filaments sensitivity coefficients	?CF C R
Request filament availability	?FM C R
Request the emission current	?IE C R
Request the desired value of the filament 1 emission current	?IE1 C R
Request the desired value of the filament 2 emission current	?IE2 C R
Request the analyzer cell pressure	?PS C R
Request the Background suppression status	?RBF C R
Request the analyzer cell status	?SC C R
Request the active filament	?SW C R
Request the current acceleration voltage in use	?VO C R
Request the desired value of the filament 1 acceleration voltage	?VO1 C R
Request the desired value of the filament 2 acceleration voltage	?VO2 C R
Request the electronic zero reference	?ZE C R
7. SERVICE	
7.1 Messages	
Request the memorized defaults	?ER C R
Request the memorized warnings list	?WA C R
7.3 Primary pump	
Request the hour counter of the primary pump	?MC0 C R

Request long commands (ctd)

7.4 High vac. pump	
Request the hour counter of the high vac. pump	?MC1 $^{C}_{R}$
Request information about the high vac. pump	?T1 $^{C}_{R}$
Request more information about the high vac. pump	?T1M $^{C}_{R}$
Request the high vac. pump speed	?V1 $^{C}_{R}$
Request the high vac pump target speed for hard vacuum method	?VITH $^{C}_{R}$
Request the high vac pump nominal speed	?VITN $^{C}_{R}$
Request the high vac pump target speed for sniffer method	?VITS $^{C}_{R}$
9. INPUTS/OUTPUTS	
9.1 Logic inputs	
Request the logic inputs status	?IN $^{C}_{R}$
9.2 Logic outputs	
Request the pressure threshold value n°1	?NP1 $^{C}_{R}$
Request the pressure threshold value n°2	?NP2 $^{C}_{R}$
Request the pressure threshold value n°3	?NP3 $^{C}_{R}$
Request the logic outputs status	?OU $^{C}_{R}$
Request the additionnal threshold value n°2	?S2 $^{C}_{R}$
Request the additionnal threshold value n°3	?S3 $^{C}_{R}$
Request the additionnal threshold value n°4	?S4 $^{C}_{R}$
Request the additionnal threshold value n°5	?S5 $^{C}_{R}$
9.3 Analogic outputs	
Request the analogic output n°1 status of the interface board	?AO1 $^{C}_{R}$
Request the analogic output n°2 status of the interface board	?AO2 $^{C}_{R}$
Request the analogic output n°3 status of the interface board	?AO3 $^{C}_{R}$

Commands with parameters

1. COMMON FUNCTIONS	
1.1 Detector parameters	
Adjust the date	=DAmmddyy $^{C}_{R}$
Adjust the lower display limit value displayed for the signal	=LDLCF $^{C}_{R}$
Adjust the password and its validation	=PWxxxxy $^{C}_{R}$
Change the display language	=SPx $^{C}_{R}$
Adjust the time	=TIhhmmss $^{C}_{R}$
Unit of measurement selection	=UNx $^{C}_{R}$
Set the purge valve status	=VPUx $^{C}_{R}$
1.3 Sound	
Set the status of the loudspeaker and the external headphone	=HPx $^{C}_{R}$
Sound volume	=SOxy $^{C}_{R}$
Digital voice volume	=SYxy $^{C}_{R}$
1.4 Zero	
Zero command	=AZx $^{C}_{R}$
Bargraph display centered on the reject point	=ZRx $^{C}_{R}$
Parameters of the zero function	=ZBxy $^{C}_{R}$
Advanced parameters of the zero function	=ZBxyzzzzCF $^{C}_{R}$
1.5 Pressure	
Set the gauge status	=GAUIxxx $^{C}_{R}$
Adjust the external gauge full scale	=GAUMSxxxxx $^{C}_{R}$
Adjust the gauge full scale	=GAUSxxxxx $^{C}_{R}$
2. HARD VACUUM TEST MODE	
2.1 Air inlet	
Inlet vent control at the end of the cycle	=IVx $^{C}_{R}$
Inlet vent function control	=IVxyzmmss $^{C}_{R}$
Inlet vent valve activation in standby mode	=VTx $^{C}_{R}$
2.2 Cycle parameters	
Cycle request	=CYx $^{C}_{R}$
Test mode adjustment	=CYTx $^{C}_{R}$
Hard vacuum coefficient adjustment	=HVCFx $^{C}_{R}$
Test method used in hard vacuum	=TSTx $^{C}_{R}$
2.3 Pressure threshold	
Adjust the gross leak pressure threshold	=P1CF $^{C}_{R}$
Adjust the gross leak mode pressure threshold in the current unit	=P1UCF $^{C}_{R}$
Adjust the normal pressure threshold	=P2CF $^{C}_{R}$
Adjust the normal mode pressure threshold in the current unit	=P2UCF $^{C}_{R}$
Adjust the high sensitivity pressure threshold	=P3CF $^{C}_{R}$
Adjust the high sens mode pressure threshold in the current unit	=P3UCF $^{C}_{R}$
2.5 Helium threshold	
Adjust the reject threshold in the current unit of measurement	=S1CFx $^{C}_{R}$
2.6 Other functions	
Depollution will trigger the end of the cycle if the helium signal exceeds the value set	=AACFx $^{C}_{R}$
Depollution control by GL selection	=APCFx $^{C}_{R}$
Control of the automatic cycle stop function	=CAabccccdddd $^{C}_{R}$
Set the Massive mode status	=MASxy $^{C}_{R}$
Memorization command	=MEx $^{C}_{R}$
Memorization command	=MExbmmss $^{C}_{R}$
Set the Bypass option status	=PADabc $^{C}_{R}$
Set the status of the Regeneration or Burn-in function	=REGx $^{C}_{R}$
Select and adjust the background max	=ARCFx $^{C}_{R}$
Select the background max	=ARx $^{C}_{R}$
3. SNIFFING TEST MODE	
3.1 Helium threshold	
Adjust the current reject threshold in the current test mode and current unit of measurement	=S1CF $^{C}_{R}$
3.2 Test parameters	
Sniffing mode activation	=SFx $^{C}_{R}$
Sniffing external coefficient adjustment	=SNCFx $^{C}_{R}$
3.3 External calibration	
Select the internal temperature sensor for autocalibration	=TES $^{C}_{R}$
3.4 LDS probe	
Adjustment of the sniffer probe clogged set point value	=S6CF $^{C}_{R}$
Set the probe type	=SPRx $^{C}_{R}$
Adjust the Smart sniffer probe clogged threshold value	=SSSxxxx $^{C}_{R}$
3.6 Other functions	
Set the status of the Regeneration or Burn-in function	=REGx $^{C}_{R}$
4. CALIBRATION	
Set a warning "autocal required"	=ACAabbbbbccccc $^{C}_{R}$
Autocalibration activation	=ACx $^{C}_{R}$
External leak values for external calibration	=AExCF $^{C}_{R}$
Adjust the internal calibrated leak characteristics	=FECFvxyyyytt $^{C}_{R}$
Calibrated leak used for autocalibration	=FEM $^{C}_{R}$
Select the calibrated leak for autocalibration	=FEPx $^{C}_{R}$
Selection of the tracer gas mass	=GZx $^{C}_{R}$
Set the temperature for autocalibration with internal or external leak	=TEVxx $^{C}_{R}$
Select the internal temperature sensor for autocalibration	=TES $^{C}_{R}$
Select the temperature on preset value for autocalibration	=TEV $^{C}_{R}$
Dynamic calibration function setting	=CVCF $^{C}_{R}$
Dynamic calibration function check	=CDx $^{C}_{R}$
5. ANALYZER CELL	
Set the zero status	=AUZxy $^{C}_{R}$
Filament sensitivity coefficient adjustment	=CFCFx $^{C}_{R}$
Hour counter reset of the selected filament	=CHx $^{C}_{R}$
Adjust the ionization current of the filament	=IExxx $^{C}_{R}$
Adjust the desired value of the filament 1 ionization current	=IE1xxx $^{C}_{R}$
Adjust the desired value of the filament 2 ionization current	=IE2xxx $^{C}_{R}$
Set the Background suppression status	=RBFx $^{C}_{R}$
Turn the filament on off	=SCx $^{C}_{R}$
Filament selection (1 or 2)	=SWx $^{C}_{R}$
Adjust the acceleration voltage	=VOyxxx $^{C}_{R}$
Adjustment of the cell electronic zero	=ZExxx $^{C}_{R}$
7. SERVICE	
7.1 Messages	
Reset the cycle counter initial value	=MCCZ $^{C}_{R}$
Set the cycle counter initial value	=MCCICF $^{C}_{R}$
7.3 Primary pump	
Primary pump 1 control	=T01xyyyy $^{C}_{R}$
Set the hour counter of the primary pump 1	=T01Hccccc $^{C}_{R}$
Reset the primary pump hour counter	=MC0Z $^{C}_{R}$
Set the primary pump hour counter initial value	=MC0Iyyyyy $^{C}_{R}$
7.4 High vac. pump	
High vac. pump control	=T1x $^{C}_{R}$
Validate the high vac. pump speed measurement	=V1x $^{C}_{R}$
Adjust the high vac pump speed	=VITxyyyy $^{C}_{R}$
Set the hour counter of the high vac. pump	=T1Haaaaa $^{C}_{R}$
Reset the high vac. pump hour counter	=MC1Z $^{C}_{R}$
Set the high vac. pump hour counter initial value	=MC1Iyyyyy $^{C}_{R}$
9. INPUTS/OUTPUTS	
Logic outputs are set through the RS 232	=INS $^{C}_{R}$
Output control	=OUxxxxx $^{C}_{R}$
Logic I/O are used by the leak detector	=INA $^{C}_{R}$
9.2 Analogic outputs	
Allocate the analogic output n° 1	=AO1y $^{C}_{R}$
Allocate the analogic output n° 1 and define the scale starting	=AO1yCF $^{C}_{R}$
Adjust the pressure threshold value n°1	=NP1CF $^{C}_{R}$
Adjust the pressure threshold value n°2	=NP2CF $^{C}_{R}$
Adjust the pressure threshold value n°3	=NP3CF $^{C}_{R}$
Allocate the analogic output n° 2	=AO2y $^{C}_{R}$
Allocate the analogic output n° 2 and define the scale starting	=AO2yCF $^{C}_{R}$