

Immediate commands

1. COMMON FUNCTIONS	
1.1 Detector parameters	
Reset the default values	IDE ^{C_R}
2. HARD VACUUM TEST MODE	
2.6 Automatic connection	
Calculate the external correction coefficient and validate it	IAE ^{C_R}
3. SNIFFING TEST MODE	
3.3 Automatic connection	
Calculate the external correction coefficient and validate it	IAE ^{C_R}
4. CALIBRATION	
4.1 Hard vacuum test - Internal calibration	
Start an autocalibration with internal calibrated leak	IAC ^{C_R}
Stop an autocalibration with internal calibrated leak	IAS ^{C_R}
4.2 Hard vacuum test - External calibration	
Start an autocalibration with internal calibrated leak	IAC ^{C_R}
Stop an autocalibration with internal calibrated leak	IAS ^{C_R}
External calibrated leak connected and opened	IAC1 ^{C_R}

4.3 Sniffing test - External calibration	
Start an autocalibration with internal calibrated leak	IAC ^{C_R}
Stop an autocalibration with internal calibrated leak	IAS ^{C_R}
External calibrated leak connected and opened	IAC1 ^{C_R}
External calibrated leak connected and closed	IAC2 ^{C_R}
External calibrated leak rate stable	IAC3 ^{C_R}
Background stable	IAC4 ^{C_R}
4.4 Sniffing test - Calibration on concentration	
Start an autocalibration with internal calibrated leak	IAC ^{C_R}
Stop an autocalibration with internal calibrated leak	IAS ^{C_R}
External calibrated leak connected and opened	IAC1 ^{C_R}
External calibrated leak rate stable	IAC3 ^{C_R}
5. ANALYZER CELL	
Filament selection (swap to the other filament)	ISW ^{C_R}
7. SERVICE	
7.1 Messages	
Memorized defaults reset	IRE ^{C_R}
Warnings reset	IWA ^{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 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 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 shutdown	?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 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}
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 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 parameters of the auto cycle 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}
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}

Request long commands (ctd)

7.3 Primary pump		Request the pressure threshold value n°2	?NP2 ^{C_R}
Request the hour counter of the primary pump	?MC0 ^{C_R}	Request the logic outputs status	?OU ^{C_R}
7.4 High vac. pump		Request the additional threshold value n°2	?S2 ^{C_R}
Request the hour counter of the high vac. pump	?MC1 ^{C_R}	Request the additional threshold value n°3	?S3 ^{C_R}
Request information about the high vac. pump	?T1 ^{C_R}	Request the additional threshold value n°4	?S4 ^{C_R}
Request more information about the high vac. pump	?T1M ^{C_R}	Request the additional threshold value n°5	?S5 ^{C_R}
Request the high vac. pump speed	?V1 ^{C_R}	Request the analogic output n° 1 status of the interface board	?AO1 ^{C_R}
9. INPUTS/OUTPUTS		Request the analogic output n° 2 status of the interface board	?AO1 ^{C_R}
9.1 Logic inputs		9.3 Analogic outputs	
Request the logic inputs status	?IN ^{C_R}	Request the analogic output n°1 status of the interface board	?AO1 ^{C_R}
9.2 Logic outputs		Request the analogic output n°2 status of the interface board	?AO2 ^{C_R}
Request the logic outputs status	?OU ^{C_R}	Request the analogic output n°3 status of the interface board	?AO3 ^{C_R}
Request the pressure threshold value n°1	?NP1 ^{C_R}		

Commands with parameters

1. COMMON FUNCTIONS		3.4 LDS probe	
1.1 Detector parameters		Adjustment of the sniffer probe clogged set point value	=S6CF ^{C_R}
Adjust the date	=DAMmdyy ^{C_R}	Set the probe type	=SPRx ^{C_R}
Adjust the lower display limit value displayed for the signal	=LDLCF ^{C_R}	Adjust the Smart sniffer probe clogged threshold value	=SSSxxxx ^{C_R}
Adjust the password and its validation	=PWxxxx ^{C_R}	3.6 Other functions	
Change the display language	=SPx ^{C_R}	Set the status of the Regeneration or Burn-in function	=REGx ^{C_R}
Adjust the time	=Tlhhmmss ^{C_R}	4. CALIBRATION	
Unit of measurement selection	=UNx ^{C_R}	Set a warning "autocal required"	=ACAabbbcccc ^{C_R}
Set the purge valve status	=VPUx ^{C_R}	Autocalibration activation	=ACx ^{C_R}
1.3 Sound		External leak values for external calibration	=AExCF ^{C_R}
Set the status of the loudspeaker and the external headphone	=HPx ^{C_R}	Adjust the internal calibrated leak characteristics	=FECFvxyyytt ^{C_R}
Sound volume	=SOxy ^{C_R}	Calibrated leak used for autocalibration	=FEM ^{C_R}
Digital voice volume	=SYxy ^{C_R}	Select the calibrated leak for autocalibration	=FEPx ^{C_R}
1.4 Zero		Selection of the tracer gas mass	=GZx ^{C_R}
Zero command	=AZx ^{C_R}	Set the temperature for autocalibration with internal or external leak	=TEVxx ^{C_R}
Bargraph display centered on the reject point	=ZRx ^{C_R}	Select the internal temperature sensor for autocalibration	=TES ^{C_R}
Parameters of the zero function	=ZBxy ^{C_R}	Select the temperature on preset value for autocalibration	=TEV ^{C_R}
Advanced parameters of the zero function	=ZBxyzzzzCF ^{C_R}	Dynamic calibration function setting	=CVCF ^{C_R}
1.5 Pressure		Dynamic calibration function check	=CDx ^{C_R}
Set the gauge status	=GAUIxxx ^{C_R}	5. ANALYZER CELL	
Adjust the external gauge full scale	=GAUMSxxxx ^{C_R}	Set the zero status	=AUZxy ^{C_R}
2. HARD VACUUM TEST MODE		Filament sensitivity coefficient adjustment	=CFCFx ^{C_R}
2.1 Air inlet		Hour counter reset of the selected filament	=CHx ^{C_R}
Inlet vent control at the end of the cycle	=IVx ^{C_R}	Adjust the ionization current of the filament	=IExxx ^{C_R}
Inlet vent function control	=IVxyzmmss ^{C_R}	Adjust the desired value of the filament 1 ionization current	=IE1xxx ^{C_R}
Inlet vent valve activation in standby mode	=VTx ^{C_R}	Adjust the desired value of the filament 2 ionization current	=IE2xxx ^{C_R}
2.2 Cycle parameters		Set the Background suppression status	=RBFx ^{C_R}
Cycle request	=CYx ^{C_R}	Turn the filament on off	=SCx ^{C_R}
Test mode adjustment	=CYTx ^{C_R}	Filament selection (1 or 2)	=SWx ^{C_R}
Hard vacuum coefficient adjustment	=HVCFx ^{C_R}	Adjust the acceleration voltage	=VOyxxx ^{C_R}
Test method used in hard vacuum	=TSTx ^{C_R}	Adjustment of the cell electronic zero	=ZExxx ^{C_R}
2.3 Pressure threshold		7. SERVICE	
Adjust the gross leak pressure threshold	=P1CF ^{C_R}	7.1 Messages	
Adjust the gross leak mode pressure threshold in the current unit	=P1UCF ^{C_R}	Reset the cycle counter initial value	=MCCZ ^{C_R}
Adjust the normal pressure threshold	=P2CF ^{C_R}	Set the cycle counter initial value	=MCCICF ^{C_R}
Adjust the normal mode pressure threshold in the current unit	=P2UCF ^{C_R}	7.3 Primary pump	
Adjust the high sensitivity pressure threshold	=P3CF ^{C_R}	Primary pump 1 control	=T01xyyyy ^{C_R}
Adjust the high sens mode pressure threshold in the current unit	=P3UCF ^{C_R}	Set the hour counter of the primary pump 1	=T01Hcccc ^{C_R}
2.5 Helium threshold		Reset the primary pump hour counter	=MC0Z ^{C_R}
Adjust the reject threshold in the current unit of measurement	=S1CFx ^{C_R}	Set the primary pump hour counter initial value	=MC0lyyyy ^{C_R}
2.6 Other functions		7.4 High vac. pump	
Depollution will trigger the end of the cycle if the helium signal exceeds the value set	=AACFx ^{C_R}	High vac. pump control	=T1x ^{C_R}
Depollution control by GL selection	=APCFx ^{C_R}	Validate the high vac. pump speed measurement	=V1x ^{C_R}
Control of the automatic cycle stop function	=CAabccccddd ^{C_R}	Set the hour counter of the high vac. pump	=T1Haaaa ^{C_R}
Set the Massive mode status	=MASxy ^{C_R}	Reset the high vac. pump hour counter	=MC1Z ^{C_R}
Memorization command	=MEx ^{C_R}	Set the high vac. pump hour counter initial value	=MC1lyyyy ^{C_R}
Memorization command	=MExbmmss ^{C_R}	9. INPUTS/OUTPUTS	
Set the Bypass option status	=PADabc ^{C_R}	Logic outputs are set through the RS 232	=INS ^{C_R}
Set the status of the Regeneration or Burn-in function	=REGx ^{C_R}	Output control	=OUxxxxx ^{C_R}
3. SNIFFING TEST MODE		Logic I/O are used by the leak detector	=INA ^{C_R}
3.1 Helium threshold		9.2 Analogic outputs	
Adjust the current reject threshold in the current test mode and current unit of measurement	=S1CF ^{C_R}	Allocate the analogic output n° 1	=AO1y ^{C_R}
3.2 Test parameters		Allocate the analogic output n° 1 and define the scale starting	=AO1yCF ^{C_R}
Sniffing mode activation	=SFx ^{C_R}	Allocate the analogic output n° 2	=AO2y ^{C_R}
Sniffing external coefficient adjustment	=SNCFx ^{C_R}	Allocate the analogic output n° 2 and define the scale starting	=AO2yCF ^{C_R}
3.3 External calibration			
Select the internal temperature sensor for autocalibration	=TES ^{C_R}		