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- AO2000
- FTPA2000 series
- LGR-ICOS analyzers
- MB3000 series
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- PGC 5000

→ See sample parts list numbers and descriptions on the following pages



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**ACF-NT
CONSUMABLES/ RECOMMENDED SPARE PARTS**

Part no.	Description	Consumption	
		2-year	5-year
768 641	Injector	2	5
730 641	Filter 1 µ stainless steel	4	10
MMS2551	Profile gasket PTFE	2	5
990 025	O-ring for filter inside SC block	4	10
4868 313	air filter 1/4"	2	5
4805 885	air filter 1/8"	4	10
651 543	O-ring 21.3 x 2.4-FPM80	2	5
651 775	O-ring 35,2 x 3 - FPM70	2	5
730 682	Filter stone with 2 O-rings made of FPM	8	20
801993	Set of flat-gaskets FPM 2 O-rings f. filter stone 190°C	1	3
801995	Set of gaskets FPM for filter insert up to 190°C	1	3
596223	Sealing washer,75,5 x 1,2 mm, Klinger-Sil	1	3
596175	Flange gasket, Klinger-Sil	1	3
62666	Flexible tubing,4x1,5 mm/ silicon	1	3
769061	Set meas. Gas nozzle ACF-NT	1	3
769060	O-Ring-set Bridge to cell	2	5
769062	Set Gaskets SC-Block	2	5
769027	gasket set O2	1	3
746893	O2-sensor complete for ACF-NT	1	3
0002-10-2-00010-01	Laser power supply	0	2
8018410	heating sleeve,230V/50-60Hz	0	1
8018411	heating sleeve,115/50-60Hz	0	1
746371	temperature sensor,Pt100	0	1
999922	connection nipple for heated sample gas pipe	1	3
746916	Electr. Connection SC-block,Heater, Pt100, overtemp.	0	1
0271628	nozzle 0.5	1	3
0768 641	injector	2	5
769189	pressure tube connectors	1	3
746800	main distributor board	0	1
746751	power supply	0	1
AA001471-01	power supply 12VDC for laser and source	0	1
0999974	Main power supply,IR-Series, +/- 15 V DC	0	1

**ACF5000
CONSUMABLES/ RECOMMENDED SPARE PARTS**

Part no.	Description	Consumption	
		2-year	5-year
990048	Filter insert	1	
990046	Filter mesh, inlet and outlet	2	
8329416	Pressure compensation device (set of 2 pieces)	1	
990048	Filter insert	1	
990046	Filter mesh, inlet and outlet	2	
8329416	Pressure compensation device (set of 2 pieces)	1	
8329410	SS-filter ACF5000, treated with o-rings	1	
730722	Set of gaskets FFKM	1	
730641	Filter insert, 1um	1	
769424	O-ring spare part set filter ASP-block	1	
769418	Injector ASP-block	1	
769420	O-ring set Bridge-cell	1	
769421	O-ring set Bridge-ASP-cell	1	
769432	Gasket spare part set O2-sensor ACF5000	1	
62666	Flexible tubing (1 meter)	1	
4805 885	Air filter G1/8"	1	
4868 313	Air filter G1/4"	1	
746463	Ext. power supply unit , 24V / 5A	1	1
PAK8329420	Fuse F4A (10 pcs)	1	1
758232	Heating element for ASP-Block	1	1
769367	Nozzle, D 0,04 (FFKM)	1	1
769074	nozzle, D 0,06 Ptlr, He/H2 (FFKM)	1	1
801994	set of gaskets FFKM	1	1
758092	Circuit board Fidas24 SSI	1	1
758093	Circuit board sample gas in/out _ Flow	1	1
758117	Circuit board AMC (Analyzer Modul Controller)	1	1
758225	Solenoid valve 0127, pre-assembled	1	1
3KXG758011U0100	O2-sensor ACF5000	1	1
8329425	Set PU+CA filter (2 pcs)	1	1
8329536	Power supply 12 V AU4	1	1
8329535	Power supply 5 V AU4	1	1
8329521	IR-Source AU3	1	1
271898	Measuring gas nozzle ASP-Block (1.0 mm)	1	1
271812	O2 limiting nozzle ASP-Block (0.3 mm)	1	1
768642	igniter	1	1

GLA Rackmount Series Laser Analyzers			
Series	Part no.	Description	Replacement Interval
GLA231 - GLA251	MTN-CLEAN-2V	Mirror Cleaning Kit - 2" mirrors - Viton o-rings Includes : - Stainless steel block with wafer to hold the mirror during cleaning - Teflon tube to extract the mirrors from their flange. - Dry air can - Lens tissues for cleaning - 30ML plastic bottles for solvent (2 pcs) - Chapman Tools kit - Viton O-rings kit	As needed
GLA211 - GLA231 - GLA251	MTN-CLEAN-2T	Mirror Cleaning Kit - 2" mirrors - Teflon o-rings Includes : - Stainless steel block with wafer to hold the mirror during cleaning - Teflon tube to extract the mirrors from their flange. - Dry air can - Lens tissues for cleaning - 30ML plastic bottles for solvent (2 pcs) - Chapman Tools kit - Teflon O-rings	As needed
GLA211 - GLA231 - GLA251	MTN-DPI-1Y	1-Year Maintenance Kit - Internal Pump Includes : - Rebuild Kit for Internal Pump Applies to following series: GLA211 - GLA311 - GLA331 - GLA351 - GLA352 - GLA132 - GLA151 - GLA231 - GLA251"	1 year
GLA231	MTN-DP20	1-Year Maintenance Kit - 3-head External pump Includes : - Rebuild Kit for External Pump	1 year
GLA231	MTN-DP40	1-Year Maintenance Kit - 4-head External pump Includes : - Rebuild Kit for External Pump	1 year
GLA231	MTN-DS10	30-months Maintenance Kit - Dryscroll-10 External pump Includes : - Rebuild Kit for External Pump	1 year
GLA231	MTN-DS35	30-months Maintenance Kit - Dryscroll-35 External pump Includes : - Rebuild Kit for External Pump	1 year
GLA231	SPK-DPI-X	Spare Parts Kit - Internal Pump Includes : - Check Valve - Pressure controller - Filters - 64GB Solid State HD with analyzer software installed and file system set up Applies to: GLA331 - GLA351 - GLA352 - GLA132 - GLA151 - GLA231 Choices: SPK-DPI-0 SPK-DPI-1 NOTE : Customer MUST provide model and serial number of analyzer	Minimize Downtime

GLA Rackmount Series Laser Analyzers (continued)			
Series	Part no.	Description	Replacement Interval
GLA211	SPK-NO2-X	Spare Parts Kit - GLA211/GLA311 Series - Rackmount Analyzers - Check Valve - Scrubber - Pressure controller - 1.2um membrane filter assy - 64GB Solid State HD with analyzer software installed and file system set up Choices: SPK-NO2-0 SPK-NO2-1 NOTE : Customer MUST provide model and serial number of analyzer	Minimize Downtime
GLA251	SPK-251S-X	Spare Parts Kit - GLA251 Series - QC Rackmount Analyzers - External Pump Includes : - Check Valve - Pressure controller - Filters - 64GB Solid State HD with analyzer software installed and file system set up Choices: SPK-251S-0 SPK-251S-1 NOTE : Customer MUST provide model and serial number of analyzer	Minimize Downtime
GLA231	SPK-EAA-231S	Spare Parts Kit - EAA - GLA231 Series - Industrial Rackmount Analyzers - External pump Includes : - Check Valve - Pressure controller - Flow control orifice - Membrane filter assembly - 64GB Solid State HD with analyzer software installed and file system set up NOTE : Customer MUST provide model and serial number of analyzer	Minimize Downtime
GLA231	SPK-HFHC-231S	Spare Parts Kit - HF/HCL - GLA231 Series - Industrial Rackmount Analyzers - External Pump Includes : - Check Valve - Pressure controller - Flow control orifice - Filters - 64GB Solid State HD with analyzer software installed and file system set up NOTE : Customer MUST provide model and serial number of analyzer	Minimize Downtime

FTPA2000-HP20 HF Alkylation Solutions Series Analyzers

Part no.	Description	Replacement Interval
PM-HP20HF-SHS-1	FTPA2000-HP20 (HF Alkylation) 2-Year operation recommended spare and consumable ABB recommend to stock these consumables Includes: 1 x AA001566-02: X082505 Vortex 15 SCFM#ADJ. 1 x 0002-15-4-00001-01: Sampling cell Sapphire window kit. 4 x AA002453-02: Sample Shut-Off, Monel Bellows Valve with replacement ferrules. 2 x 0002-12-0-00001-02: Fast-loop Swirlclean 60µm filter element. 4 x E3-12: Oil filter element for SDG1000G air dryer. 4 x E7-12: Air filter element for SDG1000G air dryer. 1 x 0002-15-1-00003-01: Kalrez O-ring kit. 1 x CS-NIR-FTPA Two years operations NIR Source Notes: - This kit is only applicable to the FTPA2000-HP20 analyzer supplied with a HF fast-loop sampling system. - Does not include side-stream sampling handling system.	2 Years
"SP-HP20HF-PLC	FTPA2000-HP20 (HF Alkylation) process analyzer spare part kit ABB recommend to stock these spare parts to minimize downtime in case of failure Included: 1 x AA010229-01: AO561:AC500. 2 AO MODULE,ECO 1 x AA009985-01: DO571:AC500,8 DO Mod-RELAY, Eco 1 x AA011225-02: PLC,24V,AC500, configured 1 x IMZ6312: Intrinsically safe barrier, 24 VDC, 20-1C. 1 x 485LDRC: RS-232 TO RS-422/485 CONVERTER. 1 x AA001526-01: ATEX 500W 240 Vac heater. 1 x AA002539-02: 24 VOLTS C1 D1 RED BEACON LIGHT 2 x AA000334-01: Pilot Solenoid valve ATEX. 1 x H250: Hastelloy fast-loop flowmeter. 1 x DK34: Hastelloy bypass-loop flowmeter. 1 x AA013003-01: POWER SUPPLY CP-C 24VDC 10A 2 x EF832024: 3-WAY EXPROOF VALVE 24VDC + brkt 1 x AA006528-01: Electronic temperature controller 1 x GA5-6D25: Solid State Relay, 280 VAC, 25AMP. Notes: - This kit is only applicable to the FTPA2000-HP20 analyzer supplied with a HF fast-loop sampling system. - Does not include side-stream sampling handling system.	Minimize downtime

FTPA2000-HP20 HF Alkylation Solutions Series Analyzers (continued)

Part no.	Description	Replacement Interval
SP-CELL-HP20HF	FTPA2000-HP20 (HF Alkylation) process analyzer Spare cell ABB recommend to stock a replacement cell for continuous operation and to optimize analyzer uptime. Includes: - 0002-12-1-00018-01: Hi-Pressure Hastelloy sampling cell, Sapphire windows, 1mm optical path (External body and optics not included)	Minimize downtime
PM-CELL-HP20HF	FTPA2000-HP20 (HF Alkylation) process analyzer cell maintenance kit ABB recommend to stock this maintenance kit when the cell needs to be cleaned. Includes: 1 x 0002-15-1-00003-01: Hast.C276/Cell o-ring Kit 1 x 0002-15-4-00001-01: Cell sapphire window kit	Minimize downtime

MB3000 Series Analyzers

Part no.	Description	Replacement Interval
SP-MB3000-BMXS	MB3000 Series analyzer Spare Parts Kit ** Only for analyzers with BMXS Electronic and internal power supply ** ABB recommend to stock these spare parts to minimize downtime in case of failure Includes: 1 x 0002-01-1-00007-01 MB3000 Source (MID) Module (Only compatible with analyzer having the internal Power supply) 1 x 0002-11-2-00002-12 BMXS Digital Control Module for MB3000-3600 series 1 x 0002-10-1-00007-01 INTERNAL POWER SUPPLY MODULE	Minimize downtime
SP-MB3000-ICE	MB3000 Series analyzer Spare Parts Kit ** Only for analyzers with ICE Electronic ** ABB recommend to stock these spare parts to minimize downtime in case of failure Includes: 1 x 0002-01-1-00015-01 MB3000 Source MID Module USB Compatible (ICE) 1 x 0035-11-1-00002-02 ICE-MB3000 MODULE Spare 1 x 0002-10-1-00007-01 INTERNAL POWER SUPPLY MODULE	Minimize downtime

MB3600 Series Analyzers

Part no.	Description	Replacement Interval
SP-MB3600-BMXS	MB3600 Series analyzer Spare Parts Kit ** Only for analyzers with BMXS Electronic and internal power supply ** ABB recommend to stock these spare parts to minimize downtime in case of failure Includes: 1 x 0002-01-1-00008-01 NIR SOURCE MODULE TALYS / MB3600 with internal power supply 1 x 0002-11-2-00002-12 BMXS Digital Control Module for MB3000-3600 series 1 x 0002-10-1-00007-01 INTERNAL POWER SUPPLY MODULE	Minimize downtime
SP-MB3600-ICE	MB3600 Series analyzer Spare Parts Kit ** Only for analyzers with ICE Electronic ** ABB recommend to stock these spare parts to minimize downtime in case of failure Includes: 1 x 0002-01-1-00016-01 MB3000 Source NIR Module USB Compatible (ICE) 1 x 0035-11-1-00002-02 ICE-MB3000 MODULE Spare 1 x 0002-10-1-00007-01 INTERNAL POWER SUPPLY MODULE	Minimize downtime

Recommended Spares PGC2000					
Part number	Description	Module	QTY P/ UNIT	3 Yrs	Unit
3615087—01	FUSE 0.25 AMP (DTC BACKPLANE)	PGC2000	1	1	PC
3616470—25	IFUSE 25 AMP (DTC BACKPLANE)	PGC2000	1	1	PC
81943A008—1	PANEL ASSEMBLY DISPLAY AND CONTROL	PGC2000	1	1	PC
802A028D—2	PCB ASSEMBLY CHROMA I/O	PGC2000	1	1	PC
81943A059—1	PCB ASSEMBLY FRONT PANEL	PGC2000	1	1	PC
802A016B—1	PCB ASSEMBLY POWER SUPPLY	PGC2000	1	1	SET
800B005 OR 800B003	PCB ASSEMBLY SB (PER APPLICATION)	PGC2000	1	1	PC
802A001B—1	PCB ASSEMBLY SOLENOID DRIVER	PGC2000	1	1	PC
3617355—2	PFA TUBING 1/4"	PGC2000	3 ft		PC
3617355—i	PFA TUBING 1/8"	PGC2000	10 ft		PC
3616975—2	REGULATOR, AIR PRESSURE RELIEVING	PGC2000	2	2	PC
3617330—i	SENSOR TEMP PLATINUM	PGC2000	1	1	PC
3616261—ii	SOLENOID FAST PURGE ADDED ENCLOSURE	PGC2000	1	1	PC
3617302—1037	SWITCH PRESSURE HEATER AIR	PGC2000	1	1	PC
805A016—1	THERMOCOUPLE ASSY	PGC2000	1	1	PC
3615565—6	SENSOR PRESSURE	PGC2000	1	1	PC
733P004D—1	EXTENDER PCB	PGC2000	2	2	PC

Recommended Spares PGC5000					
Material	Description	Start-up	1 Yr	2 Yrs	
45051-4-132	O-ring fluorocarbon 1-5/16 x 1-1/8 x 3/32	0	0	1	
799A001B-2	Detector FID basic assy w	0	0	1	
8230689-1	Diaphragm replacement, polyimide	0	1	2	
3616313-3	Ferrule 1/16 in	0	0	2	
3617370-1	filter, 2 micron SAI/MS 5/16-24	0	1	1	
851Z048-1	fuse 10 amp	10	10	10	
851Z049-1	fuse 5 amp	10	10	10	
3615086-17	fuse, glass cartridge 3AG slo-blo 250v	10	10	10	
857Z013-1	fuse, slo-blo, 4A, 250V, 5x20mm	10	10	10	
44726-4	gauge pressure pnl mount 0-100	0	0	1	
856Z003-1	heater, air 1000W 115V PGC5000C	0	0	1	
794A007B-2	ignitor potted assy nichr	0	0	1	
3617156-2	jet flame ion detector M	0	0	1	
800K003-2	kit filament repl const T	0	1	1	
865K001-1	kit filament replacement mptc	0	1	1	
799K003-1	kit maintenance 799 FID	0	1	1	
799K006-1	kit microdot cable insert	0	0	1	
801K001-1	kit o-ring epc assembly	0	0	1	
800K001-1	kit wire splice detector	0	0	1	
801K007-2	kit, pcb assembly, epc sensor	0	0	1	
006828	leak-detector snoop	1	1	2	
851K005-1	multiport TCD amplifier GC	0	0	1	
3616312-1	nut port connector .062 303SS	0	0	2	
852A045-1	PCB assy DTC standard model PGC5000	0	0	1	
802A011B-1	PCBA, EPC control board, PGC5000	0	0	1	
852A024-1	PCBA, EPC electronic pressure control mod	0	0	1	
794A009B-1	polarizer, potted, assembly, mdl 794 FID	0	0	1	
81943K006-1	pressure switch replacement kit pt 70-80	0	0	1	
3617360-1	restrictor H2 800 scc/min	0	0	1	
851Z010-1	sensor platinum resistance temp	0	1	1	
3615565-8	sensor ultra low differen	0	0	1	
856A020-1	switch heater pressure 2/cable PGC5000	0	0	1	
805A016-1	thermocouple assembly, isothermal oven he	0	1	1	
794A008B-1	thermocouple , potted, assembly, mdl 794 FID	0	0	1	
805A017-1	Tube, catalyst, methanizer assembly	0	1	2	
805A018-1	Tube, catalyst, air clean-up assembly	0	1	2	
8230442-3	Valve, DV-22	0	0	1	
851Z056-2	Valve, external, single 02 series	0	0	1	
851Z056-1	Valve, internal, single 02 series	0	0	1	
361734-1	Valve, directional, solenoid, EPC proprot	0	0	1	
800K008-1	Valve, needle, replacement kit	1	1	1	
TL161-1	Wrench hex key metric POC	1	0	0	
851Z036-1	Regulator, air, 125 PSIG range	0	0	1	

FIDAS 24 ANALYZER MODULE, AO2000

PART NUMBER	QUANTITY	DESCRIPTION
758117	1	AMC Board (need Analyzer Module Fn number to program)
769260	1	Preamplifier
758092	1	SSI Board
758093	1	Sample Gas In/Out Board
758095	1	Combustion Air - Combustion Gas Board
769331	1	Injector and oring set
769343	1	Oring set for injector
769415	1	Sealing Set for detector and distributor block
271883	1	Nozzle, .85
769329	1	Pressure Sensor
62666	1	Flexible Tubing
768650	1	Oring Kit, Sample Gas Connection
768642	1	Ignitor
768649	1	Sample Gas Inlet Filter
768972	1	Protection Filter
4805885	2	Air Filter, 1/8"
768644	1	Nozzle, .04 Combustion Gas, H2
768973	1	Nozzle, .5 Sample Gas

MAGNOS 206 ANALYER MODULE, AO2000**9AAC176403**

PART NUMBER	QUANTITY	DESCRIPTION
758117	1	AMC Board (need Analyzer Module Fn number to program)
758007	1	SSI Board
758014	1	Pressure Sensor
746842	1	Thermal Fuse

LIMAS 23 UV ANALYER MODULE, EZ LINE

PART NUMBER	QUANTITY	DESCRIPTION
758117	1	AMC Board (need Analyzer Module Fn number to program)
758088	1	SSI Board
746741	1	EDL Heater Board
758089	1	Sample Cell Heater Board
758014	1	Pressure Sensor
745836	1	Thermal Fuse
746376	1	EDL Lamp - Standard (Determined by data sheet/Fn number)
769220	1	Detector
758109	1	Cable, 50 pin
TBD	1	Sample Cell (Part number determined by data sheet/Fn number)

URAS 26 ANALYER MODULE, AO2000**9AAC176408**

PART NUMBER	QUANTITY	DESCRIPTION
758117	1	AMC Board (need Analyzer Module Fn number to program)
758001	1	SSI Board
758002	1	Heater Board
758014	1	Pressure Sensor
745836	1	Thermal Fuse
769304	1	Modulation Unit, 1 emitter (Determined by data sheet/Fn number)
769305	1	Modulation Unit, 2 emitters (Determined by data sheet/Fn number)
801936	1	Set pipe fittings (Determined by data sheet/Fn number)
TBD	1	Detector (Part number determined by data sheet/Fn number)
TBD	1	Sample Cell (Part number determined by data sheet/Fn number)