

#### ABB MEASUREMENT & ANALYTICS | INFORMATION

# **Ensuring performances and availability** FTPA2000-260 Series FTIR Process Analyzer



Keeping performances and availability of FTPA2000-260 Series analyzer is essential. ABB offers full service contracts, components and customer training to assist in service and maintenance over the lifetime of the analyzers.

#### Measurement made easy

FTPA2000-260

### Introduction

FTPA2000-260 Series FT-NIR process analyzer is extremely widespread around the world. The application covered by this kind of analyzer is various, all the different types of industries are equipped.

The measurement supplied by FTPA2000-260 Series FTIR process analyzer are generally focus on optimization or quality control and therefore are important production staff.

Blending in refineries, solvent recovery in pharmaceutical industries or acid concentration monitoring in semiconductor plants demands a highly reliable and accurate analyzer.

To ensure factory performances, availability over time and safety compliance (for FTPA2000-HP260X), ABB recommends following a maintenance schedule for the FTPA2000-260 Series process FTIR analyzer. ABB Service program ensure the customer to get the analyzer reaching the ABB factory specifications and performances and minimizing downtime. ABB is committed to keep on informing its customer for the long-term and safe operation and to provide safety-first products and services.

We encourage all our users to read this document as it contains important information regarding ABB FTPA2000-260 Series analyzer.

An overview of the recommended maintenance schedule for the FTPA2000-260 Series analyzer is presented in this document as well as upgrade and support solution.

### **Complete Service Offers**

ABB offers a large range of service products to ensure customers to get the analyzer reaching ABB factory specifications, to minimize downtime and extend lifetime.

To maintain the best performances and availability of the analyzer, the following items should be reviewed:

- Preventive maintenance program
- Computer upgrade with last software version
- Spectrometer electronic upgrade
- Standard and customize training
- Spare parts and maintenance kit
- Business On Line BOL
- Remote assistance for measurement device

#### Preventive maintenance program



Operation of the FTPA2000-260 Series FTIR process analyzer is generally critical for customers.

The ABB preventive maintenance program provides peace of mind to customers and minimize unexpected failures and maintain factory performances. It includes:

- One preventive maintenance visit per year
- Faster turnaround time (priority over per call customers) GOLD customer
- Replacement of spares as per ABB recommended interval
  - NIR source and laser (with laser power supply)Accessory maintenance with parts replacement if
- requiredComplete analyzer inspection
- Validation and performance report
- IQ/OQ Qualification for Pharma system
- 10% discount on 3-years maintenance contract
- 5% Discount on additional parts and service.

#### Trade-In program

For analyzer older than 2002, to avoid any inconvenience related to parts obsolescence and unpredictable downtime, ABB offers a trade-in program.

This is a turnkey solution:

- Eliminate problems related to electronic and software obsolescence
- · Direct sampling handling system compatibility
- Same connectivity: Pneumatic, electric...
- Seamless calibration transfer from old to new analyzer.
- Full analyzer warranty

#### Upgrade possibilities

To ensure availability and minimize downtime, a notice of updates and information linked to existing and installed FTPA2000-260 Series FTIR analyzer is provided below:

- Computer upgrade to compact industrial computer equipped with SSD drive for more robustness. Windows 10 operating system and last version FTSW100, ABB process software. (Desktop, laptop and rack computer also available)
- Spectrometer electronic upgrade enabling faster spectrum acquisition, remote health monitoring, ethernet connection improvement...
- 12V and 15V Power supply upgrade to more reliable and stable one.

#### Service offer

Other service products are available for customers who wants to get the best from their analyzers:

- Flexible training on site or at ABB office. The duration of the training is defined according to customer experience and needs
- Availability of different spare parts kit to minimize downtime.
- Business On Line: Customer could easily place an order at their convenience through Web interface.
- Remote assistance, remote health monitoring check, automated email health checks reports...

In order to better support and advise customers with FTPA2000-260 Series analyzers and to keep using the spectrometer at optimal condition, ABB suggests performing maintenance once a year and assessment/upgrade on older systems.

#### Summarize service offer

The table below shows the upgrade and service possibilities and availabilities for FTPA2000-260 Series FTIR process analyzer per manufacturing year:

Service product availability	<2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016 to Now
Trade-in program															
Electronic upgrade															
Computer upgrade															
Preventive Maintenance Program															
Business On Line															
Spare Parts kit															
Training															
Remote Assistance															

## 6 years preventive maintenance table

Component	Sub-Component	1 Year	2 Years	3 Years	4 Years	5 Years	6 Years
FTPA2000-260	Reference	Update with source					
Spectrometer	(current and initial)	module replacement	•	•	•	•	•
	NIR Source	Replace pre-aligned source module	✓	✓	✓	✓	✓
	Laser module			Replace pre- aligned module			Replace pre- aligned module
	Power supply						12V and 15V replacement
	FTSW control panel Validation	Closed loop optical fiber validation	~	✓	~	~	✓
	Probe/cell Validation	Validation with factory template	✓	✓	~	~	~
	FTSW100 Process Software	Update software/firmware Install Hotfixes	~	✓	~	~	~
	Controller (industrial computer)					Replace or update controller	
FTPA2000-HP260X CSA and Cenelec version	Operational tests	✓	✓	✓	✓	✓	✓
	Temperature checks	✓	✓	✓	✓	✓	✓
	Pressure tests	✓	✓	✓	✓	✓	✓
HPI -	Toluene Validation and config. stretch update	~	~	✓	~	~	~
	ACC115 Sample maintenance	Oring replacement Windows cleaning	✓	✓	~	~	~
	Sample conditioning		Vortex replacement		~		
	Sample conditioning	Sample filter replacement	✓	✓	✓	✓	✓
Chemical	Sample Cell/Probe maintenance	Oring replacement and body/windows cleaning	✓	✓	~	~	~
	Sample conditioning		Vortex replacement	·	~		
	Sample conditioning	Sample filter replacement	✓	✓	✓	✓	✓
Pharma -	Sample Cell/Probe maintenance	Oring replacement and body/windows cleaning	✓	✓	✓	1	✓
	IQ/OQ Analyzer qualification	Qualification using certified standards	✓	✓	~	✓	✓
	ABB Representative report signature	✓	~	✓	~	~	1



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