

FDA 21 CFR Part 11 support functionality installed (DI support)

System Software for ZA3000 Series Atomic Absorption Spectrophotometer

Strong support for FDA 21 CFR Part 11

In current analytical work, data integrity (DI) is required not only for the analysis of pharmaceutical products but also to ensure data reliability. To maintain DI, it is necessary to prevent falsification or deletion of data. In addition, to properly assess test results, it is necessary to retain all data and records created in the course of testing. System Software for ZA3000 Series Atomic Absorption Spectrophotometer has improved DI support with installed support functionality for FDA 21 CFR Part 11.

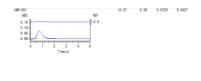


Main features

- 1 Electronic signature
- 2 Audit trail
- Protection of electronic records (Data Integrity)
- 1 Electronic signature

Measurement results and measurement conditions are stored together as data files.

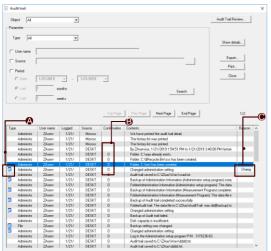
These files can be electronically signed.



2 Audit trail

Creation and modification of files, analysis operations, and event information are recorded as an audit trail.

- A History items marked with indicate that there is a detailed history.
- B History items with a "O" under Confirmation have had an "Audit trail review" performed.
- C Reasons are displayed in the "Reason" section



- 4 User Authority setting
- 5 User authentication feature based on user ID and password
- 6 Operation protect feature

3 Protection of electronic records (Data Integrity)

Sets up saving of data and audit trail information and deletion prevention. Records are managed in accordance with the ALCOA principle (see figure below). Prevention of file deletion and automated backup, restoring, and archiving of data are performed by Microsoft Windows operations.



"ALCOA" principles related to DI

The contract to the contract t			
Attributable:	Records are attributable, and where responsibility lies is unambiguous User authentication, electronic signatures		
Legible:	Records are legible, and the records for each step are understandable Collection of change history via audittrails Deletion of data by operators is prohibited		
Contemporaneous:	Records are accurate, based on fact, and authentic Actual conditions under which operation was performed (such as who, what, when, how)		
Original:	Recording is done at the time the work is done Mandatory saving of collected data		
Accurate:	Data are original data Records of all data and audit trails		

4 User Authority setting

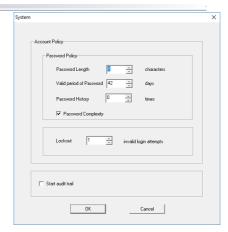
Multiple groups can be created and authorities set for each group. Authorities are also managed in the system by group registration of users. By selecting groups and users, a list of information for each group [name, description, and rights and information for each user (user name, comments)] can be printed.



Group Property Group Name: (2/A Service engineers group) System Administration Authority Backup Group George Add Teal Review Add Teal Review Backup Group Group

5 User authentication feature based on user ID and password

User authentication security based on user ID and password is enforced whenever a user logs in, provides an electronic signature, etc. The password policy can be set in the environment-setting program (setting content: length, expiration date, history, complexity). There is a lockout feature against unauthorized access.



6 Operation protect feature

The system has a protection feature that does not allow anyone else to use the system when the user steps away.

There is also an "automatic operation protect" feature that runs if no operations are performed for a preset amount of time.



■ Part 11 related functional specifications

Environment-	User Authority settings			
Setting Program	Creation of Authority groups			
	Password policy setting			
	Protection of electronic records			
	Audit trail review			
	Automatic backup / restoring / archiving of data			
	Archived data access			
	Printing of group/user lists			
ZA3000	Audit trail			
(Part 11 / DI	Electronic signature			
Support version)	Operation protect			
	Reason for Change			

Software

Part No.	Product Name
7J1-8801	FDA 21 CFR Part 11 support functionality installed System Software for ZA3000 Series Atomic Absorption Spectrophotometer

■ PC specifications

Main Memory	CPU that can run a 4 GB or more	bove OS		
	4 GB or more			
Hard Diek		4 GB or more		
naid Disk	Free capacity 5 GB or more			
CD-ROM Drive	Maximum 24×or higher			
Interface	USB 2.0×1 or higher			
Display	Desktop model	17-inch or greater Resolution 1280 × 1024 (SXGA) or higher, or 21.5-inch wide or greater Resolution 1920 × 1080 (full HD) or higher		
١	Notebook model	15.6 inch wide or greater Resolution 1920 × 1080 (full HD) or higher		



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