



# NanoPhotometer<sup>®</sup> CFR21 Software

## User Manual

Version 1.0

Software Version 4.2.14756



The end user of the NanoPhotometer® product (“End User”) hereby takes full responsibility for safe storage and backup of all files and/or data that may be created, saved on or transferred from the device. End User acknowledges that it is possible that data and/or files may be lost or damaged, and further acknowledges and agrees that it has sole responsibility to maintain all appropriate backup of files and data. By using the NanoPhotometer® device, End User hereby agrees to these terms, and agrees that Implen shall not be held liable for any loss, deletion or damage of any data or files for any reason, including any damages attributable thereto.

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## 1. OVERVIEW

The CFR21 software complies with FDA 21 CFR part 11 requirements and is an optional software tool ideal for GxP laboratories, which require proper electronic record keeping. It includes user management, access control, electronic signatures, data integrity, security, and audit trail functionality.

### User Management

Individual Role Based Access Control (RBAC) provides password protected access and control of the NanoPhotometer®. Create multiple user accounts with different access rights which are handled in a hierarchic structure. User role options are Administrator, Power User, and User. Organize users into working groups to facilitate access of shared data and stored methods within a lab. There is also an option for increased transparency with Four Eye Authentication. Various password settings are available within the CFR21 Software – for example secure password and password expiration options. Effectively improve data security and fulfill audit requirements easily with flexible and appropriate RBAC user management solutions. All features can be enabled or disabled on demand to meet your laboratory needs.

### Electronic Signature

Measurement data can only be saved when confirmed with user ID and password by the logged in user. All saved files include the user name/author, date and time of saving for proper electronic records. IDS and PDF files cannot be altered and ensure data integrity.

### Audit Trail

The audit trail automatically records all actions and preference changes in an audit log. The audit log contains a log ID, time stamp, user ID, and category for each action. Audit trails can be printed or exported by an Administrator for documentation purposes.

**Note:** This CFR21 Software user manual does not describe the general functionality of the NanoPhotometer®. The CFR21 software user manual is to be used in conjunction with the NanoPhotometer® user manual.

### Important Compliance Information

The NPOS Software, containing the activated CFR21 Software, in conjunction with your company's SOPs can assist you in complying with FDA 21 Part 11 requirements.

Your company must ensure that all aspects of the FDA regulations are maintained.

Compliance may include (but is not necessarily limited to):

- Validating your NanoPhotometer®.
- Access control and proper documentation.
- Determining that the system users have the knowledge, training, and experience required to perform their assigned tasks.
- Verifying the identity of each user.
- Restricting user accounts appropriately.
- Requiring a periodic change of account passwords.
- Certifying the use of electronic records and electronic signatures to the FDA.
- Configuring the CFR21 software consistently with your intended use.
- Establishing and following conforming SOPs.

**Note:** For more information on complying with the FDA 21 CFR Part 11 requirements, refer to the FDA website: <http://www.fda.gov>.

## 2. CFR21 SOFTWARE ACTIVATION

The CFR21 software is part of the installed NPOS Software. No further installation is necessary. Activation of the CFR21 Software is only possible with a serial number related license file (NPOS.lic).

The CFR21 Software is available for NanoPhotometer® N120/NP80/N60/C40.

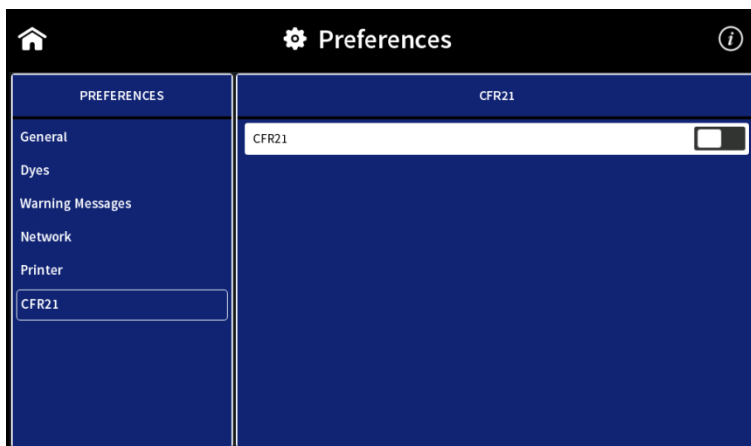
**Note:** The CFR21 Software is not available for NanoPhotometer® N50 and control devices like tablets and smartphones.

### ENABLING CFR21 SOFTWARE

#### ACTIVATION STEPS:

- Save the NPOS.lic (license file) into the root folder of a USB flash drive
- Insert the USB flash drive into the NanoPhotometer®
- Select Preferences / CFR21
- Activate CFR21 toggle
- **Note:** All existing network folder and server access entries will be deleted by this step.
- Add an Administrator

**Note:** It is necessary to add at least one Administrator account otherwise the CFR21 Software is not activated.



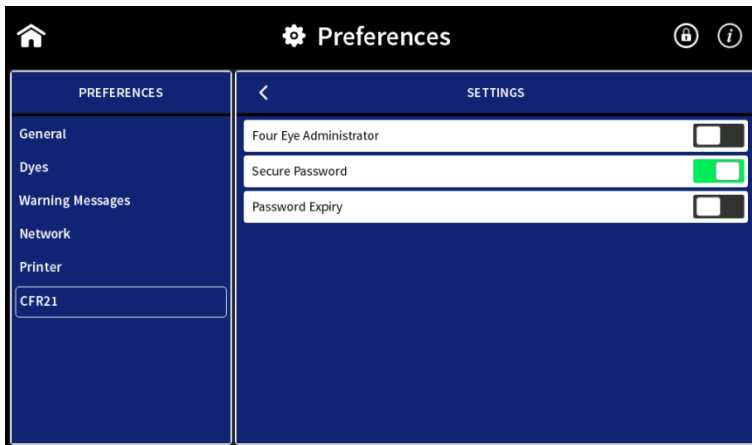
### DEACTIVATION CFR21 SOFTWARE

For deactivation of the CFR21 Software deactivate the CFR21 toggle switch in Preferences/CFR21. This step will perform a factory reset of the NanoPhotometer®. Save all data before deactivation of the CFR21 Software and perform a factory reset.

**Note:** Deactivating the CFR21 Software requires a factory reset of the NanoPhotometer®. All data, user accounts, permissions and settings will be lost. Save all necessary data in advance.

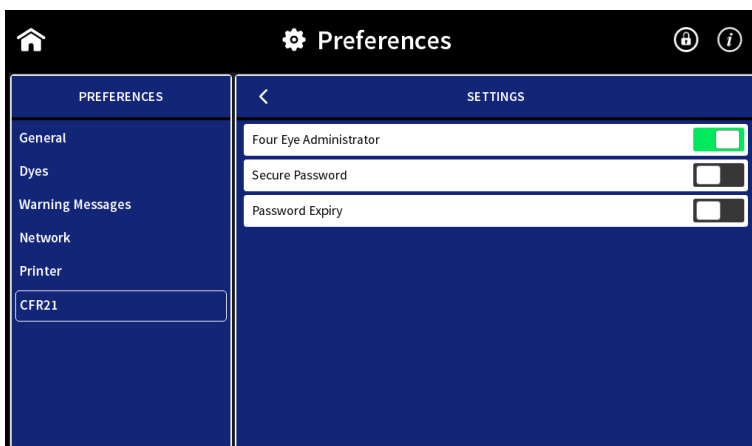
## 3. SETTINGS

The CFR21 settings menu includes: Four Eye Administrator, Secure Password and Password Expiry.



### FOUR EYE AUTHENTICATION

Four Eye Authentication requires confirmation from a second Administrator account when implementing critical software changes. To enable the Four Eye Administrator setting, activate the Four Eye Administrator toggle. It is necessary to create at least two Administrator accounts for this setting.



The following features, settings and actions require confirmation from a second Administrator account if four eye authentication is active:

Factory reset, change of date and time, deactivation of CFR21 software, deactivation of Four Eye Administrator, secure password, password expiry, rename folder, and delete result file.

### SECURE PASSWORD

Secure password is set as default and can be switched off.

Secure password ON:

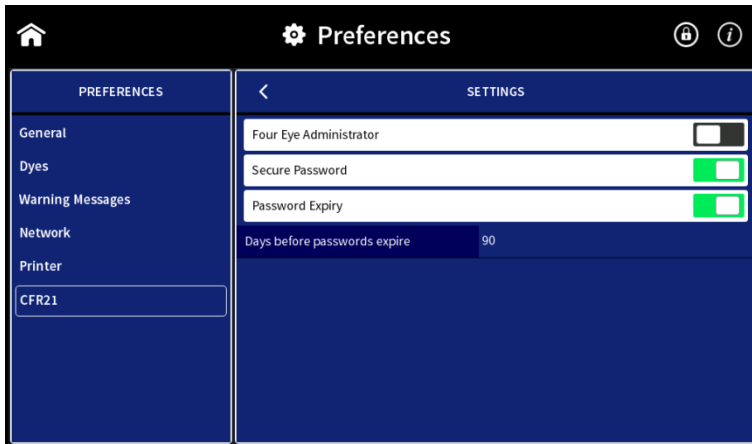
At least 8 characters with a minimum of 1 special character, 1 capital letter, 1 lowercase letter and 1 number.

Secure password OFF:

At least 4 characters/numbers and no further restrictions.

## PASSWORD EXPIRY

Password expiry offers the possibility to have each user prompted to change the account password on a regular basis. When password expiry is active it is possible to enter a timeframe between 1 and 365 days. Default setting is 90 days.

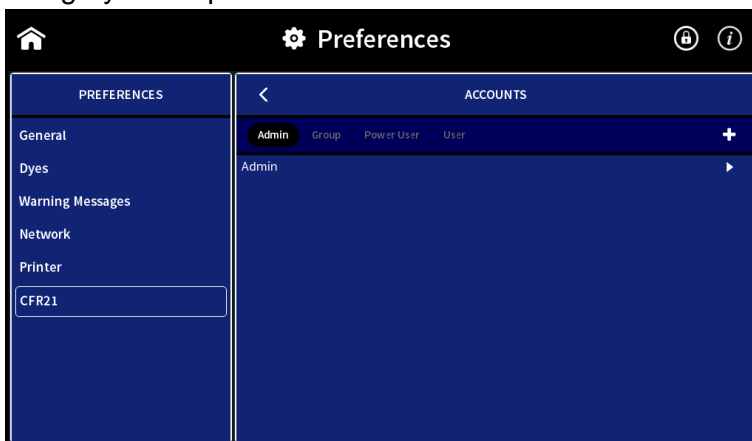


**Note:** If the amount of days before passwords expire is reduced, it is possible that all passwords expire immediately and must be changed with the next login.

## 4. SETTING UP USER ACCOUNTS

There are three types of user accounts: Administrator, Power User and User. An Administrator has full access rights and can create Groups, Administrator, Power User, User accounts. Power Users and Users need to be assigned to a group. A Power User can create User accounts in their defined group.

To add an Administrator, Group, Power User or User select the desired account/group category and tap the + icon.



**Note:** If account/group category or + icon is not available, the logged in user does not have access rights to create the account or group.

## ADD ACCOUNT

It is possible to add several Admin, Power User and User accounts. Power User and User accounts need to be assigned to a group.

1. Select category: Admin, Power User or User



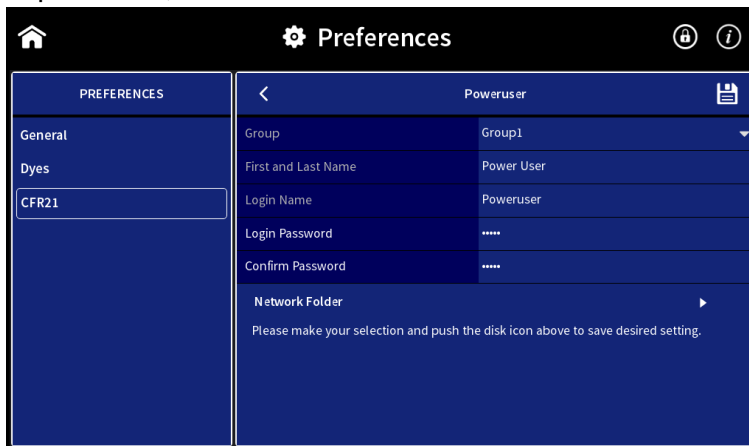
**Note:** In order to add a Power User or User create at least one Group.


2. For Power User / User account select Group
3. Enter user's first and last name
4. Enter Login Name

**Note:** Allowed characters are: letters, digits, underscores and dashes. Login name needs to start with a letter. Do not use blank character.

5. Set Login Password and confirm the password. This password is a temporary password which the user will be prompted to change after the first login.

**Note:** Passwords need to have at least 4 characters/numbers, but if secure password is enabled at least 8 characters are required with a minimum of 1 special character, 1 capital letter, 1 lowercase letter and 1 number.



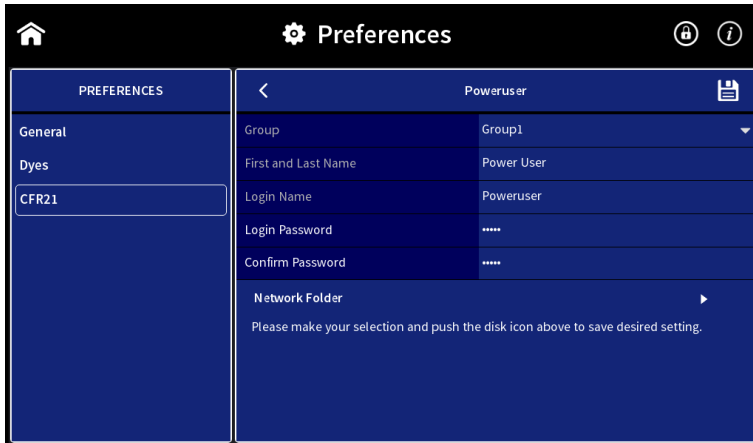
6. Save User account by tapping the  icon

**Note:** It is not possible to delete user accounts.

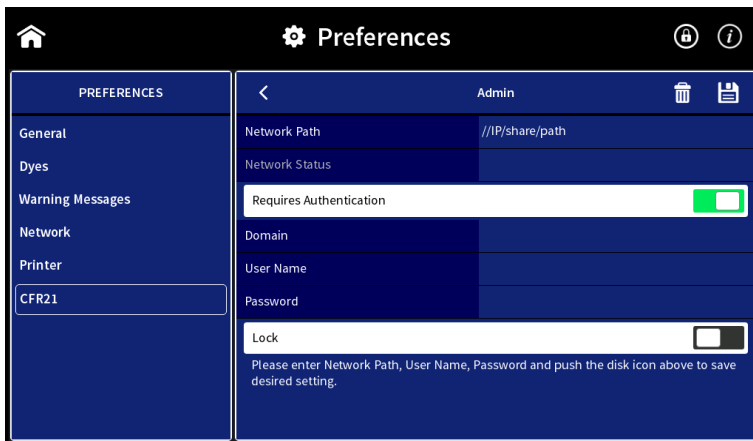
## ADD NETWORK FOLDER

A user can only create a network folder in their own account. To create a network folder select Network Folder in the user account preferences.





Enter the Network Path of the network folder using either //IP/share/path or //server/share/path. If the local network requires authentication also enter user name and password for Windows or macOS login and the domain if necessary. Save the settings by tapping the icon. The network status changes to “connected” if the network folder was created successfully.



Network folders can be deleted by tapping the icon. The folder nickname is created automatically (Network\_login name) and is shown in all directories.

## 5. USER RIGHTS

The following table describes the different user rights of Administrator, Power User or User.

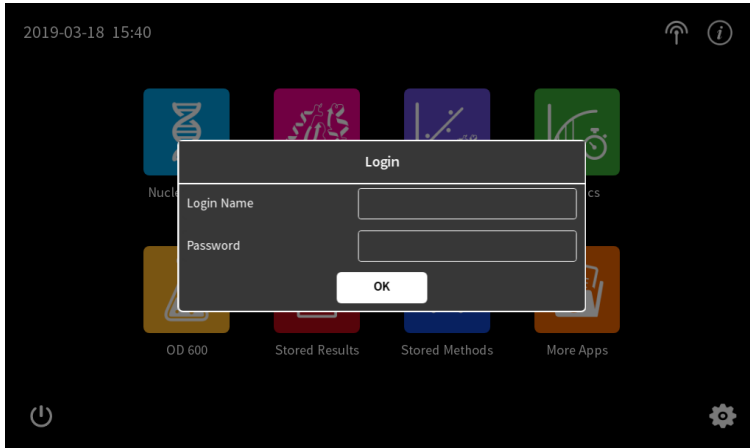
**Note:** When “Yes/4 Eye” is displayed in the table for Administrator rights, this indicates that Four Eye Authentication is enabled when the Four Eye Administrator setting is active.

Action	Administrator	Power User	User
Report Problem	Yes	No	No
Reset	Yes/4 Eye	No	No
Update	Yes	No	No
Date and Time	Yes/4 Eye	No	No
Language	Yes	No	No
Enable NanoVolume (C40)	Yes	No	No
Add Dyes	Yes	Yes	No
Dyes show toggle switch	Yes	No	No
Delete Dyes/Change Dyes	No	No	No
Change Warning Messages	Yes	No	No
Change Network (Settings, WLAN)	Yes	No	No
Change Printer (Network printer, Report Configuration)	Yes	No	No
CFR21 Off	Yes/4 Eye	No	No
Add Admin/Power User Account	Yes	No	No
Add Group	Yes	No	No
Add User Account	Yes	Yes	No
Set temporary password for lost password or misentry of password	Yes	No	No
4 Eye Administrator	Yes/4 Eye	No	No
Secure Password	Yes/4 Eye	No	No
Password Expiry	Yes/4 Eye	No	No
Audit Trail	Yes	No	No
Save parameter as Stored Method	Yes	Yes	No
Change parameter in opened Stored Method	Yes	Yes	No
Delete Stored Methods	Yes/4 Eye	No	No
Rename Folder	Yes/4 Eye	No	No
Delete Folder	No	No	No
Move Folder	No	No	No
Delete Result File	Yes/4 Eye	No	No
Rename Result File	Yes	Yes	No
Move Result File	No	No	No
Delete Results	Yes	No	No

## 6. LOGIN TO THE NPOS SOFTWARE

### LOGIN

If the CFR21 software is enabled a login is necessary for any action.



To login enter the Login Name and password and confirm with OK.

**Note:** If another user is logged in e.g. with a control device (computer) it is not possible to login to the NanoPhotometer® directly unless the logged in user logs off or a forced log off is requested with an Administrator account.

### AUTOMATIC LOG OFF


There is an automatic screen lock if the NanoPhotometer® is inactive for 10 minutes. The screen can only be unlocked by the logged in user or with a forced log off by an administrator.

### SCREEN LOCK

The screen can be locked in each method by tapping the  icon in the navigation bar.

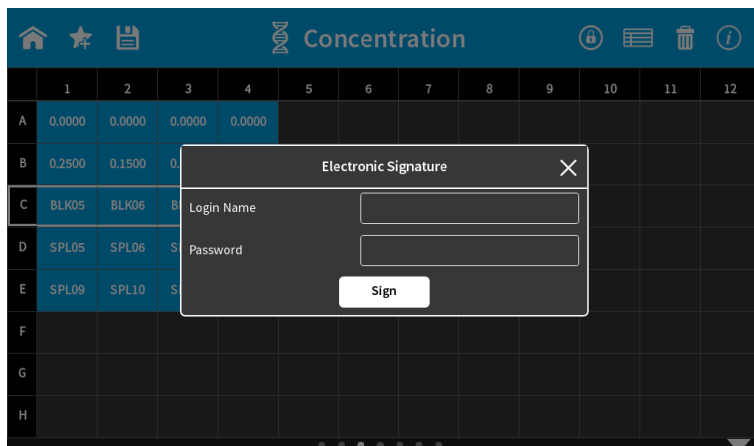
**Note:** Locked screen can only be unlocked by the logged in user or with a forced log off by an Administrator.

### LOG OFF

Log off is only possible on the home screen by tapping the  icon.

## 7. ELECTRONIC SIGNATURE

The electronic signature is set as default and cannot be disabled. Saving measurement data needs to be confirmed by the logged in user (Electronic Signature: Login Name and Password).



All saved file reports include the author, User ID, User Name, and date and time of the electronic signature. IDS and PDF files cannot be altered. A second signature is shown as Read/Save/Print if an IDS file is reopened and data are printed or exported as an Excel/PDF file. This second signature shows the user's User ID and User Name, as well as date and time of exporting or printing data.

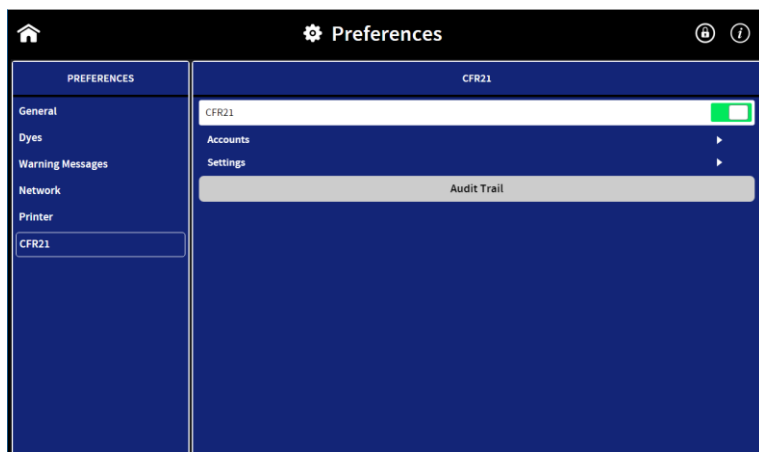
### Implen NanoPhotometer®

Instrument Type	NP80	
Version	NPOS 4.2 build 14756	
Serial Number	M80945	
Selftest passed	2019-08-23; 13:17	
Autosave	No	
File Name	Gruppe_A/bjones/Header.ids	
Reason	Author	Read/Save/Print
User ID	bjones	msmith
User Name	Becky Jones	Mark Smith
eSign Date	2019-08-23	2019-08-23
eSign Time	13:25:16	13:27:35

## 8. AUDIT TRAIL

The audit trail function is automatically activated with CFR21 software activation. The audit trail automatically records all actions and preference changes in an audit log.

Analyzing and viewing the audit trail is only possible as a logged-in Administrator by opening the CFR21 preferences using the NPOS computer software:



The audit trail opens a table including the following information for each recorded action and preference change: ID, Date/Time, User ID, Category, Action and Details.

The audit trail can be printed or saved as a PDF.

ID	Date/Time	UserID	Category	Action	Details
629	2019-03-13 16:40:47	Admin1	Administrator	Login	
628	2019-03-13 16:40:42	Admin1	Administrator	Logout	
627	2019-03-13 16:25:08	Admin1	Administrator	Measurements saved	method: MolExtCoefficient, file: My NanoPhotometer/autosave-admin1, formats: Excel, PDF
626	2019-03-13 16:24:27	Admin1	Administrator	File opened successfully	NanoPhotometer/Autosave/Backup-MolExtCoefficient-14-28-190313.ids
625	2019-03-13 16:23:57	Admin1	System	autosave	Backup-undefined-16-23-190313.ids
624	2019-03-13 16:23:56	Admin1	Administrator	Screen Unlock	
623	2019-03-13 16:02:58	Admin1	System	Screensaver on	10 minute time out / screen locked
622	2019-03-13 15:52:53	Admin1	Administrator	Measurements saved	method: dsDNA, file: My NanoPhotometer/Results_2019-03-13_15-52-40, formats: IDS, Excel, PDF
621	2019-03-13 15:52:31	Admin1	Administrator	Screen Unlock	
620	2019-03-13 15:52:24	Admin1	Administrator	Misentry of password	second time for user Admin1
619	2019-03-13 15:52:14	Admin1	Administrator	Misentry of password	first time for user Admin1
618	2019-03-13 15:18:45	Admin1	System	Screensaver on	10 minute time out / screen locked

Using the NanoPhotometer® touchscreen the audit trail can only be printed or saved.

Saved audit trail files can be found in the Audit Trail folder which can only be accessed by Administrators.

## 9. PASSWORD LOSS/MISENTRY

If a Power User or User has lost the login password or entered it three times wrong, an Administrator can change the password of the Power User/User in the account settings (Preferences) to a temporary password. The Power User or User will be prompted to change the temporary password after the first login.

In case an Administrator has lost the password please contact the Implen support team (support@implen.de).

## 10. APPENDIX

### CFR21 SOFTWARE STATEMENT

Paragraph	Summary	Features
<b>11.10 Controls for closed systems</b>		
11.10 Persons who use closed systems to create, modify, maintain, or transmit electronic records shall employ procedures and controls designed to ensure the authenticity, integrity, and, when appropriate, the confidentiality of electronic records, and to ensure that the signer cannot readily repudiate the signed record as not genuine. Such procedures and controls shall include the following	Controls for closed systems	The NanoPhotometer® Software NPOS 4.0 contains the optional CFR21 feature. Once this CFR21 feature is activated all these requirements are fulfilled.
(a) Validation of systems to ensure accuracy, reliability, consistent intended performance, and the ability to discern invalid or altered records.	System validation	The complete NanoPhotometer® Software NPOS 4.0 is validated by Implen to ensure accurate, reliable and intended performance of all the components of the NanoPhotometer® system. IQ/OQ procedures for proper function of the NanoPhotometer® instrument can be put in place. The proprietary file format IDS is protected by hash codes and encryption to allow identification of altered files.
(b) The ability to generate accurate and complete copies of records in both human readable and electronic form suitable for inspection, review, and copying by the agency. Persons should contact the agency if there are any questions regarding the ability of the agency to perform such review and copying of the electronic records.	Record generation and copying	In addition to the protected IDS files, all relevant measurement parameters and results can be exported to PDF using the PDF/A standard as well as Excel file format.
(c) Protection of records to enable their accurate and ready retrieval throughout the records retention period.	Record protection	Every export is accompanied with an IDS file, which is protected by hash codes and encryption to allow detection of tampering. At any time, PDF and Excel reports can be regenerated from these IDS files. Security measures for storage of these reports lie within the responsibility of the operating company.
(d) Limiting system access to authorized individuals.	Access limitation	Before any use of the system, every user is required to login for system access. Each user has a defined role, including access privileges.

<p>(e) Use of secure, computer-generated, time-stamped audit trails to independently record the date and time of operator entries and actions that create, modify, or delete electronic records. Record changes shall not obscure previously recorded information. Such audit trail documentation shall be retained for a period at least as long as that required for the subject electronic records and shall be available for agency review and copying.</p>	<p>Audit trails</p>	<p>Time-stamped audit trails are recorded for actions performed on the instrument by the user such as file storage, transfer activities and preference changes. The audit trails can be exported in PDF format. The creation and signature of the report files also creates an audit trail report entry. Reports cannot be overwritten.</p>
<p>(f) Use of operational system checks to enforce permitted sequencing of steps and events, as appropriate.</p>	<p>Operational system checks</p>	<p>Not applicable.</p>
<p>(g) Use of authority checks to ensure that only authorized individuals can use the system, electronically sign a record, access the operation or computer system input or output device, alter a record, or perform the operation at hand.</p>	<p>Authority checks</p>	<p>It is ensured that users have the proper authority to carry out particular functions based on their roles and access privileges. It is the responsibility of the operating company to ensure that each user name can be traced to a real individual and to ensure correct assignment of roles.</p>
<p>(h) Use of device (e.g. terminal) checks to determine, as appropriate, the validity of the source of data input or operational instruction.</p>	<p>Device/ terminal checks</p>	<p>Checks are applied to allow only valid information input in respective files. All CSV and JSON input files are checked to ensure valid content.</p>
<p>(i) Determination that persons who develop, maintain, or use electronic record/electronic signature systems have the education, training, and experience to perform their assigned tasks.</p>	<p>Training and user accountability</p>	<p>Implen Software Development team is fully and continuously trained. Implén provides NanoPhotometer® Software user trainings. The operating company is responsible for training on their SOPs in regard to electronic records and electronic signatures. Implén supports the installation of these SOPs in relation to NanoPhotometer® Software.</p>
<p>(j) The establishment of, and adherence to, written policies that hold individuals accountable and responsible for actions initiated under their electronic signatures, in order to deter record and signature falsification.</p>	<p>Policies</p>	<p>Responsibility of the operating company.</p>
<p>(k) Use of appropriate controls over systems documentation including:                  (1) Adequate controls over the distribution of, access to, and use of documentation for system operation and maintenance.                  (2) Revision and change control procedures to maintain an audit trail that documents time-sequenced development and modification of systems documentation.</p>	<p>System Document Control</p>	<p>A release-specific software manual is distributed together with the NanoPhotometer® Software. NanoPhotometer® Software development is governed by a design and change control process that ensures the creation and tracking of relevant documents.</p>

<b>11.30 Controls for open systems.</b>		
Persons who use open systems to create, modify, maintain, or transmit electronic records shall employ procedures and controls designed to ensure the authenticity, integrity, and, as appropriate, the confidentiality of electronic records from the point of their creation to the point of their receipt. Such procedures and controls shall include those identified in 11.10, as appropriate, and additional measures such as document encryption and use of appropriate digital signature standards to ensure, as necessary under the circumstances, record authenticity, integrity, and confidentiality.		Not applicable. The NanoPhotometer® operates as a closed system.
<b>11.50 Signature manifestations.</b>		
(a) Signed electronic records shall contain information associated with the signing that clearly indicates all of the following: (1) The printed name of the signer; (2) The date and time when the signature was executed; and (3) The meaning (such as review, approval, responsibility, or authorship) associated with the signature.	Signature manifestations	The user management ensures that all user IDs are unique. (1) The system verifies the user credentials before creating any report (the user is required to re-enter his/her user ID and password). The protected IDS file as well as PDF and Excel files contain the user ID and the full name of the user. (2) The date & time when the signature was executed is associated with the signature. (3) The signature for creating the initial reports including the protected IDS file is indicated as "Author" as reason for signature. The signature for (re-)creating reports in PDF and Excel format are indicated as "Read/Save/Print" as reason for signature.
(b) The items identified in paragraphs (a)(1), (a)(2), and (a)(3) of this section shall be subject to the same controls as for electronic records and shall be included as part of any human readable form of the electronic record (such as electronic display or printout).	Signature in electronic records and in human readable form	User's full name, date and time are included within the IDS file, which is protected by hash codes and encryption. When generating the human readable PDF and Excel files, the electronic signature is displayed with user ID, user's full name, date & time, and reason.
<b>11.70 Signature/record linking.</b>		
Electronic signatures and handwritten signatures executed to electronic records shall be linked to their respective electronic records to ensure that the signatures cannot be excised, copied, or otherwise transferred to falsify an electronic record by ordinary means.	Signature/ record linking	The signature is integrated in the IDS file and can therefore not be excised, transferred or copied.



<b>11.100 General requirements.</b>		
(a) Each electronic signature shall be unique to one individual and shall not be reused by, or reassigned to, anyone else.	Uniqueness of electronic signatures	The user management system ensures that all user IDs are unique. Therefore, all electronic signatures are unique.
(b) Before an organization establishes, assigns, certifies, or otherwise sanctions an individual's electronic signature, or any element of such electronic signature, the organization shall verify the identity of the individual.	Verification of identity	It is the responsibility of the operating company to ensure the identity of the individual at the time of creating the individual's user account.
(c) Persons using electronic signatures shall, prior to or at the time of such use, certify to the agency that the electronic signatures in their system, used on or after August 20, 1997, are intended to be the legally binding equivalent of traditional handwritten signatures. (1) The certification shall be submitted in paper form and signed with a traditional handwritten signature, to the Office of Regional Operations (HFC-100), 5600 Fishers Lane, Rockville, MD 20857. (2) Persons using electronic signatures shall, upon agency request, provide additional certification or testimony that a specific electronic signature is the legally binding equivalent of the signer's handwritten signature.	Certification	Responsibility of the operating company.
<b>11.200 Electronic signature components and controls.</b>		
(a) Electronic signatures that are not based upon biometrics shall: (1) Employ at least two distinct identification components such as an identification code and password.	Controls for electronic signatures	Users are requested to enter user ID and password for every signature action. In order to have access to a signature action, the user must have a user ID in the user management system and must be logged in with user ID and password.
(i) When an individual executes a series of signings during a single, continuous period of controlled system access, the first signing shall be executed using all electronic signature components; subsequent signings shall be executed using at least one electronic signature component that is only executable by, and designed to be used only by, the individual.		
(ii) When an individual executes one or more signings not performed during a single, continuous period of controlled system access, each		

<p>signing shall be executed using all of the electronic signature components.                  (2) Be used only by their genuine owners; and                  (3) Be administered and executed to ensure that attempted use of an individual's electronic signature by anyone other than its genuine owner requires collaboration of two or more individuals.</p>		
<p>(b) Electronic signatures based upon biometrics shall be designed to ensure that they cannot be used by anyone other than their genuine owners.</p>		<p>Not applicable.</p>
<p><b>11.300 Controls for identification codes/passwords.</b></p>		
<p>Persons who use electronic signatures based upon use of identification codes in combination with passwords shall employ controls to ensure their security and integrity. Such controls shall include:</p>		
<p>(a) Maintaining the uniqueness of each combined identification code and password, such that no two individuals have the same combination of identification code and password.</p>	<p>Uniqueness of ID/ password</p>	<p>The user management system ensures unique user IDs.</p>
<p>(b) Ensuring that identification code and password issuances are periodically checked, recalled, or revised (e.g., to cover such events as password aging).</p>	<p>Password aging</p>	<p>The user management system provides password expiration and account locking after several authentication failures. Criteria can be set individually by the operating company.</p>
<p>(c) Following loss management procedures to electronically deauthorize lost, stolen, missing, or otherwise potentially compromised tokens, cards, and other devices that bear or generate identification code or password information, and to issue temporary or permanent replacements using suitable, rigorous controls.</p>	<p>Lost ID/ password management</p>	<p>The user management system allows an administrator to assign a new temporary password in case of lost, stolen or missing passwords. Proper loss management procedures are the responsibility of the operating company.</p>
<p>(d) Use of transaction safeguards to prevent unauthorized use of passwords and/or identification codes, and to detect and report in an immediate and urgent manner any attempts at their unauthorized use to the system security unit, and, as appropriate, to organizational management.</p>	<p>Controls to prevent unauthorized credential use</p>	<p>NPOS with activated CFR21 feature will lock the screen after an inactive period of time to prevent unauthorized attempted use. Other transaction safeguards such as supervision of blocked accounts etc. lies within the responsibility of the operating company.</p>
<p>(e) Initial and periodic testing of devices, such as tokens or cards, that bear or generate identification code or password information to ensure that</p>	<p>Periodic testing of ID/ password generation</p>	<p>Responsibility of the operating company.</p>



they function properly and have not been altered in an unauthorized manner.		
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