
FDA 21 CFR part 11 compliance



FDA 21 CFR part 11 compliance

1997 年 8 月 20 日，食品藥品監督管理局 21 號 CFR 第 11 部分生效。本規定總結如下：

“食品和藥物管理局（FDA）正在頒布條例，在某些情況下提供 FDA 接受電子記錄，電子簽名和手寫簽名的條件，這些條件等同於在紙上執行的紙質記錄和手寫簽名。適用於所有 FDA 計劃領域的這些規定旨在允許盡可能廣泛地使用電子技術，以符合 FDA 對促進和保護公共衛生的責任。使用電子記錄以及提交給 FDA 是自願的。”

概要

無紙記錄儀的設計符合 CFR 21 第 11 部分的標準，可用作經過驗證的系統的一部分。

- 1) 無紙記錄儀記錄的所有過程數據受加密的“數字簽名”保護，以確保這些記錄的真實性。
- 2) 固態閃存用於提供不依賴於電池備份且不受磁場影響的數據的安全存儲。
- 3) “歷史查看器”審閱軟件提供以人類可讀形式查看數據記錄和審計跟踪的功能。
- 4) 錄音機中提供用戶名和密碼，以限制對授權人員的訪問。
- 5) WH10-20-30 無紙記錄儀記錄的所有過程數據都附有詳細的審核日誌。所有系統事件，包括配置更改，電源故障記錄。所有條目都是時間和日期和時間戳，包括操作員標識。

FDA 21 CFR Part 11 子部分 B，第 11.10 節：修改控制

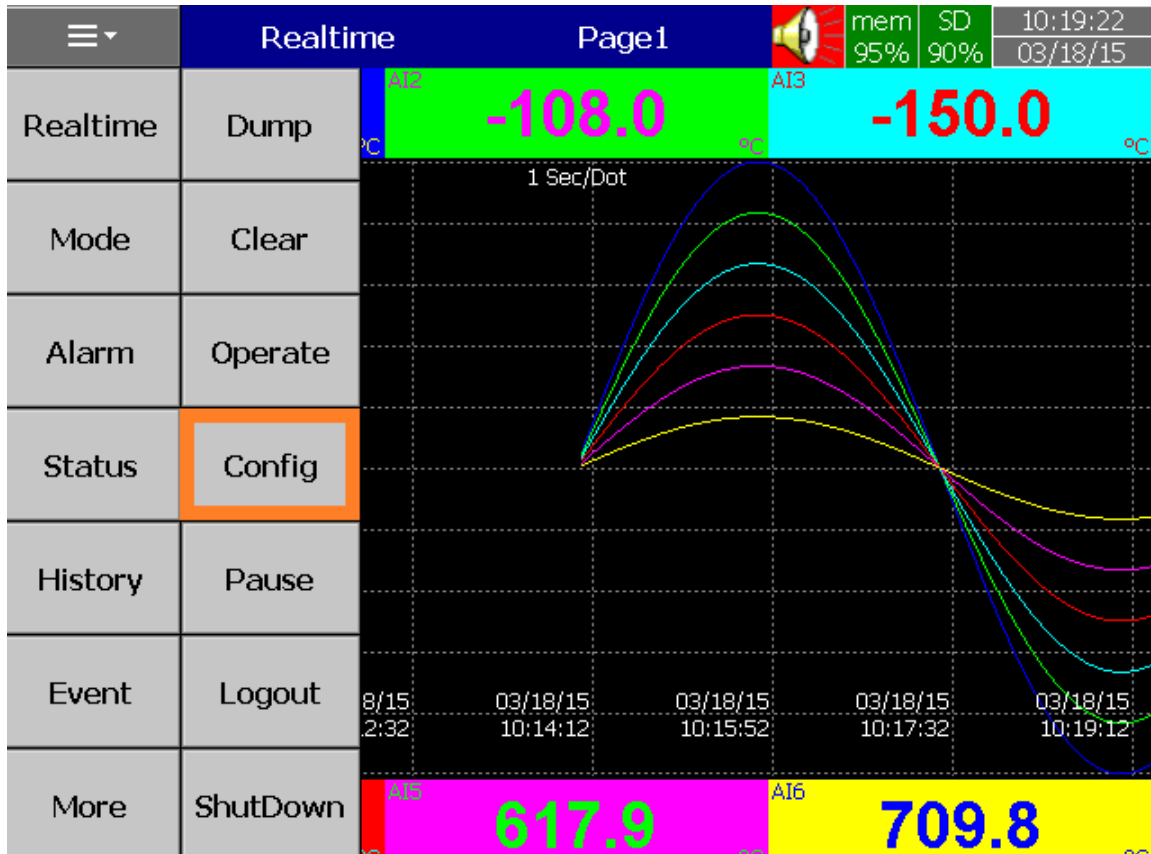
“使用封閉系統創建，修改，維護或傳送電子記錄的人員應採用旨在確保電子記錄的真實性，完整性和適當時的電子記錄的機密性的程序和控制，並且可以確保簽名者不能拒絕簽名的記錄不真實”。

由無紙記錄儀記錄的所有過程數據都是專有（防篡改）格式，並且是普通操作界面的只讀格式。通過使用 Historical Viewer 數據檢查軟件“數字簽名”可以添加和檢查，以驗證數據的完整性。如果數據記錄的任何部分被更改，則歷史查看器軟件將向用戶警告記錄的無效性質

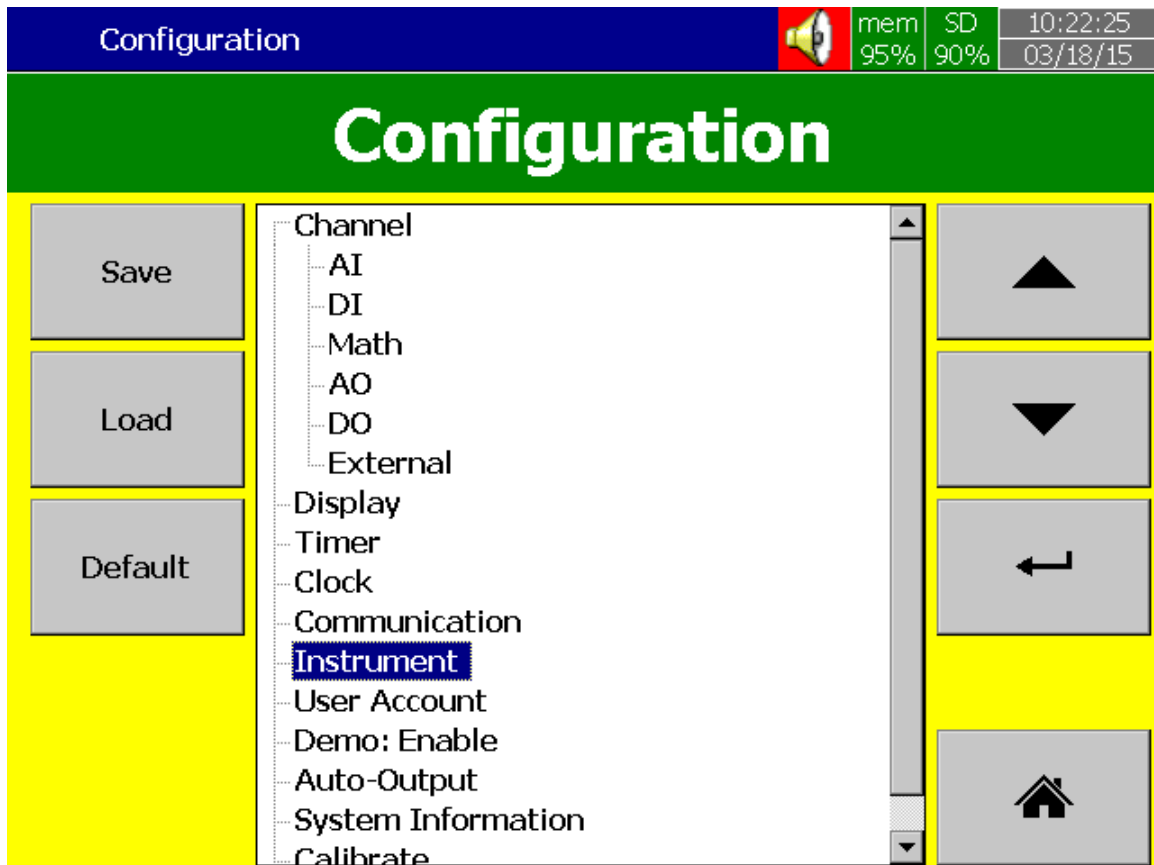
Procedure to Enable FDA 21 CFR Part-11 compliance on the Recorder:

在記錄儀上啟用 FDA 21 CFR Part-11 合規程序：

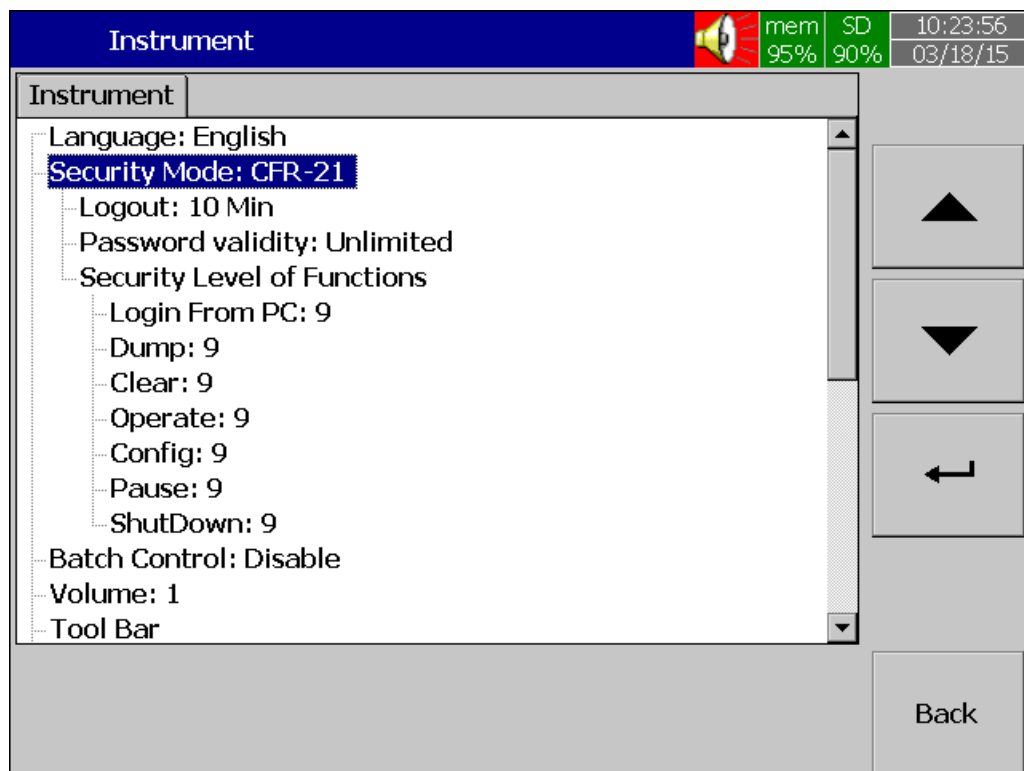
1. Power on the Recorder 開啟記錄器電源開關
2. Select Configuration Menu from Menu 選擇組態檔選項



3. Select Instrument from Configuration Menu
在組態檔中選擇“工具”選項



4. Change Security Mode to CFR-21 to Enable FDA 21 CFR Part 11 compliance on the Recorder
將安全模式更改為 CFR-21，以在 Recorder 上啟用 FDA 21 CFR Part 11 合規性



5. The Log out time for the user, Validity for the Passwords and Security Level for Each functions can be Selected on the setting. The Security Level can be Set from 1 to 9. The Security Level 1 will be the Lower level and the Security Level 9 will be higher level of access.

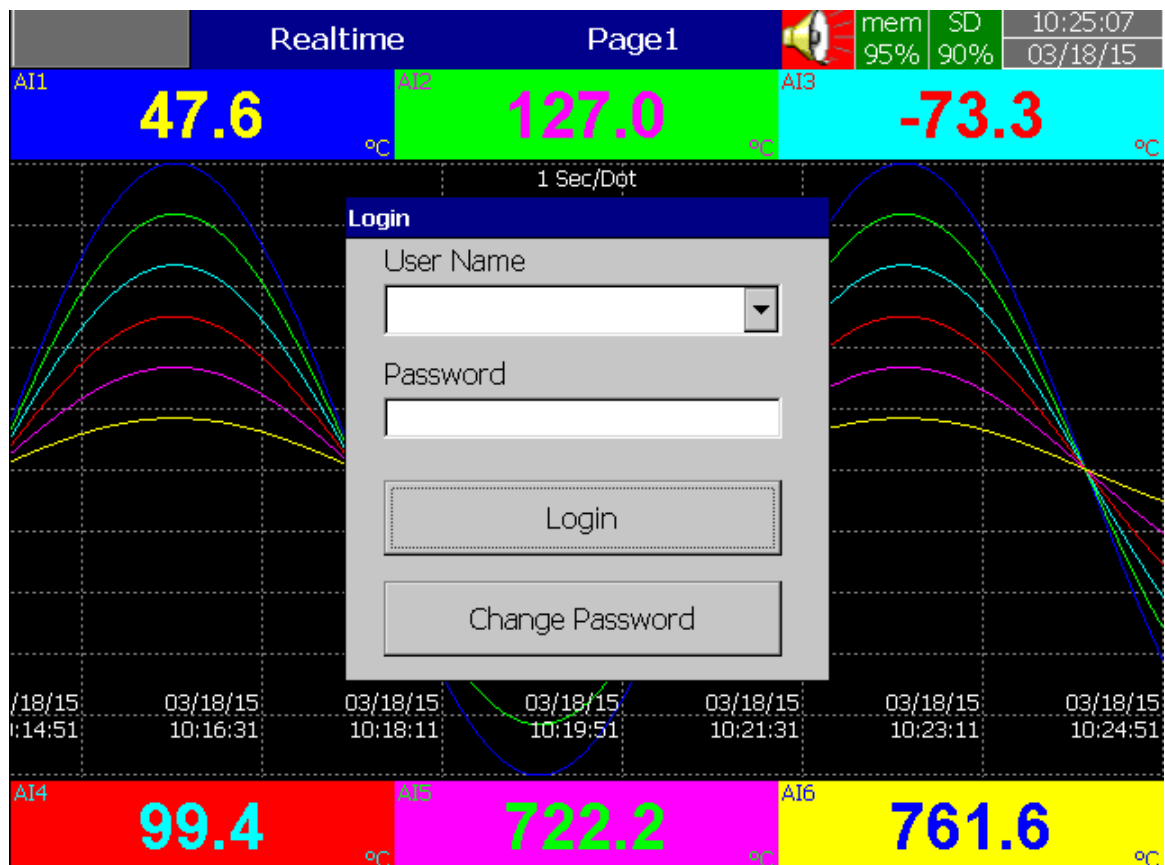
用戶的註銷時間，每個功能的密碼和安全級別的有效性可以在設置中選擇。安全級別可以從 1 設置為 9.安全級別 1 將為較低級別，安全級別 9 將為更高級別的訪問。

- D After this press back button and Home button to Save the Configuration. The Recorder must be restarted to Enable the Changes on the Configuration which will enable FDA 21 CFR Part-11 Compliance Feature on the Recorder.

按此按鈕後按鈕和主頁按鈕保存配置。必須重新啟動記錄儀以啟用配置上的更改，這將使記錄儀上的 FDA 21 CFR Part-11 合規性功能。

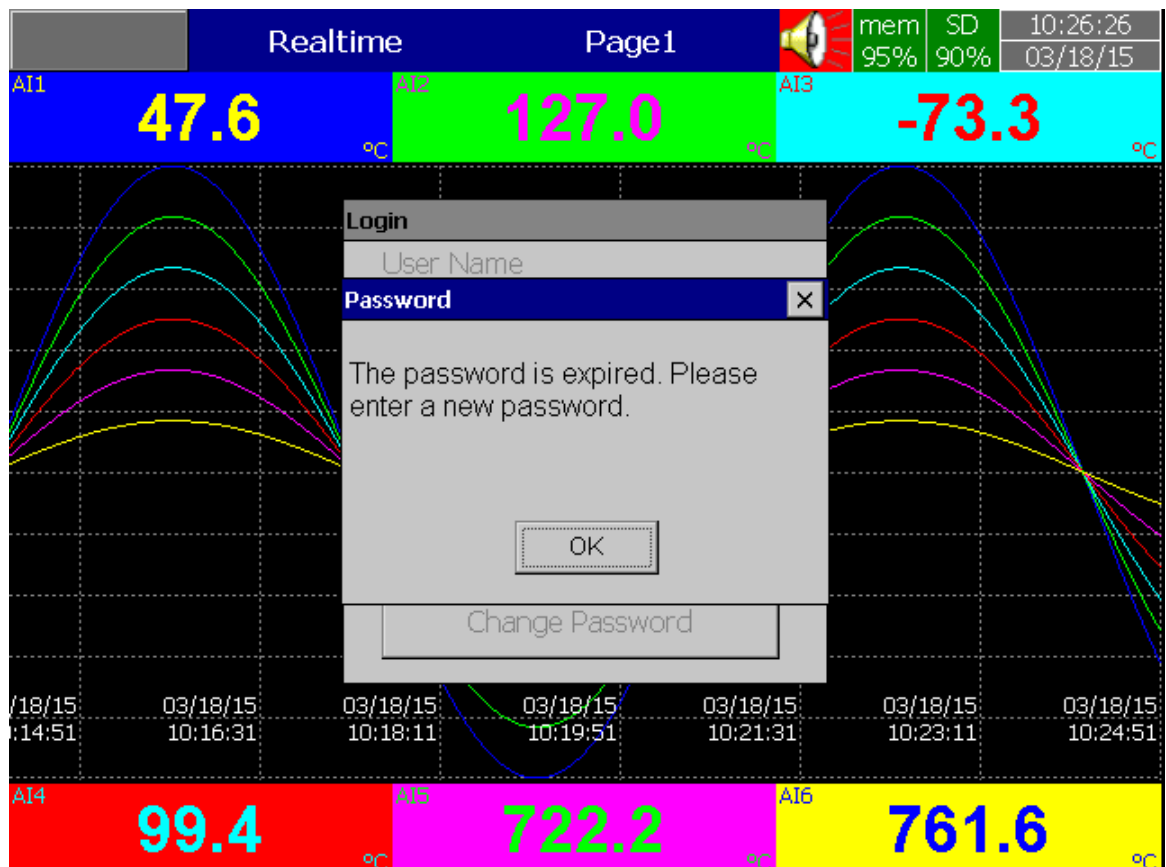
- D After Reboot the Recorder need to be Set with Password for the users needed to access the Recorder.

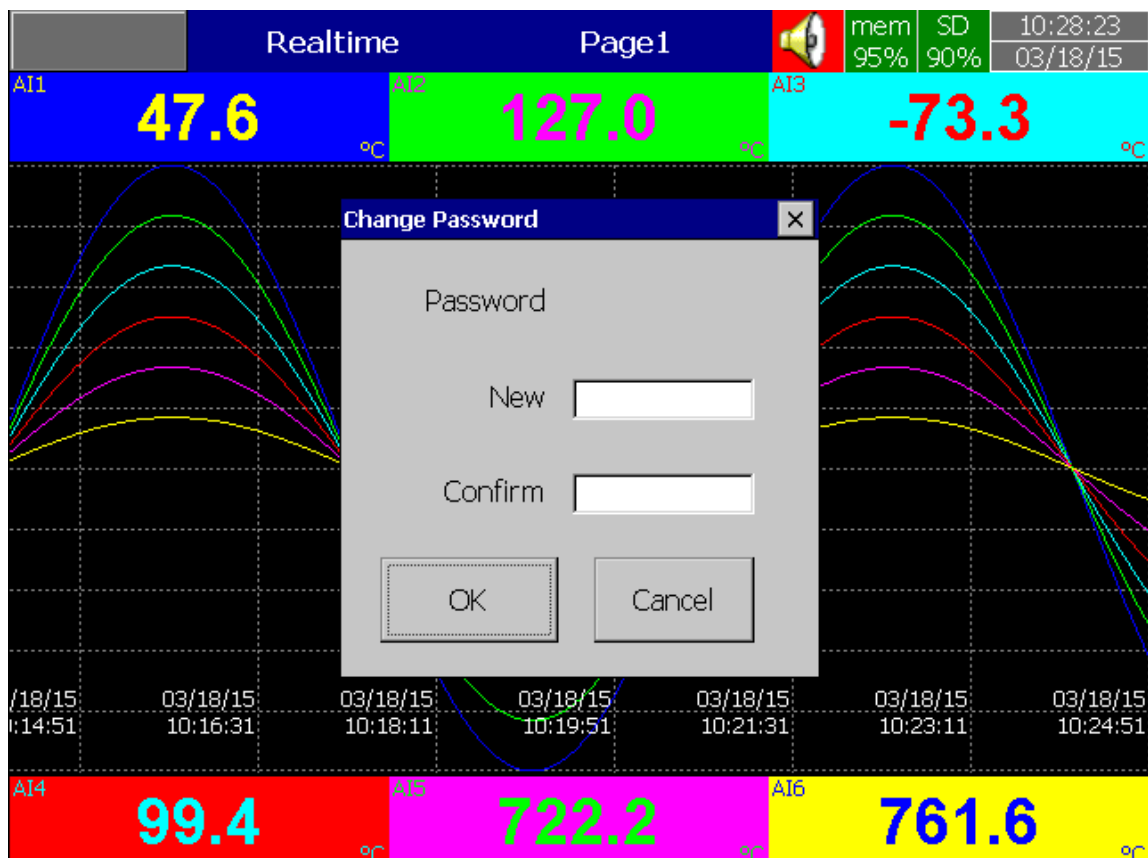
重新啟動後，記錄儀需要為訪問記錄器所需的用戶設置密碼。



D Select the User name and Enter the Password to Login. If it is the first time to select the user then the Recorder will prompt you to set the password for that user.

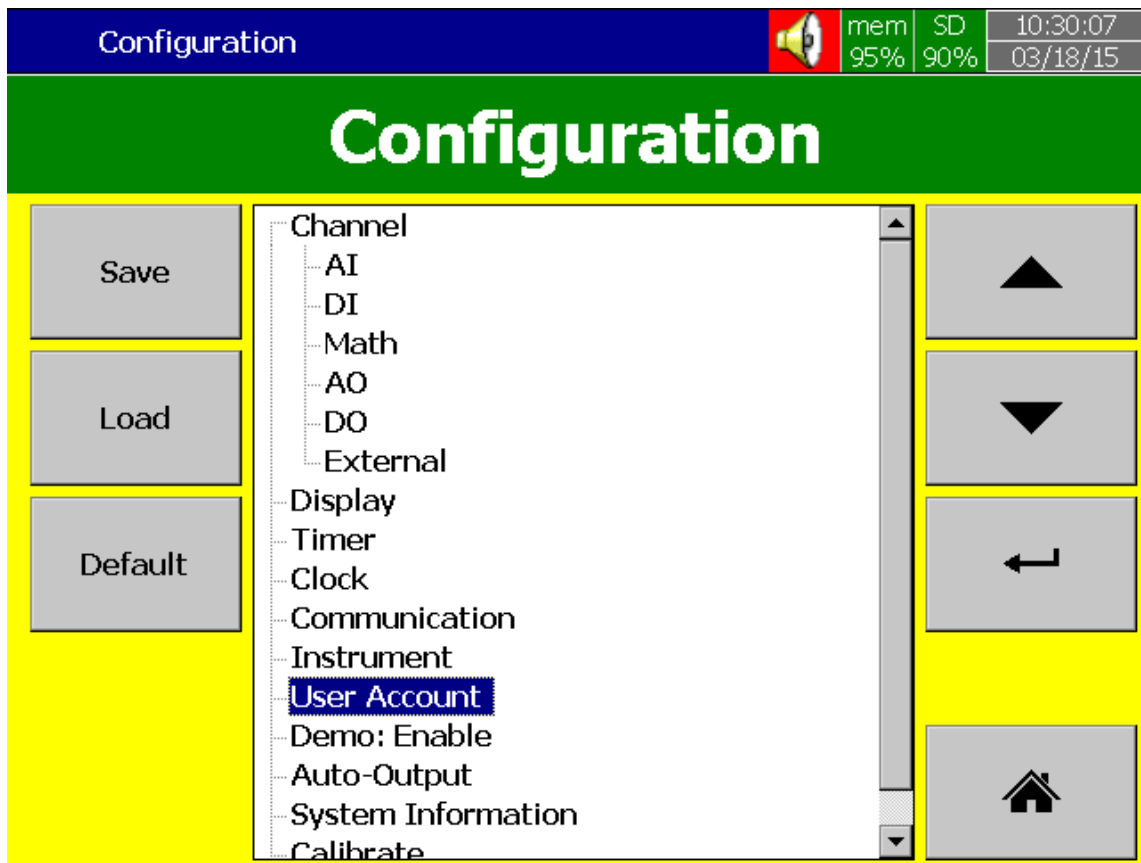
選擇用戶名，輸入登錄密碼。如果是第一次選擇用戶，則記錄器將提示您設置該用戶的密碼





- D After Login Select the User Account Menu in Configuration Menu to Create the user and assign their Security level. Maximum 30 users can be created.

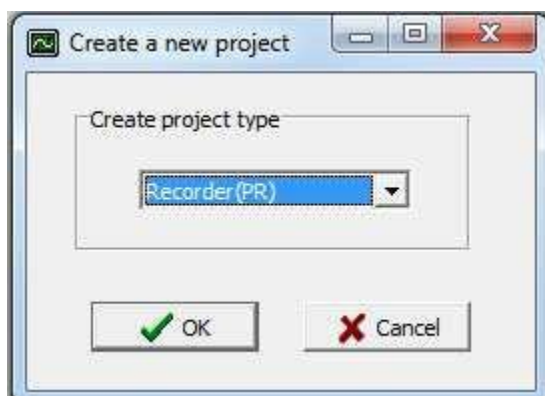
登錄後在配置選單中選擇用戶帳戶選單以創建用戶並分配其安全級別。最多可創建 30 個用戶。

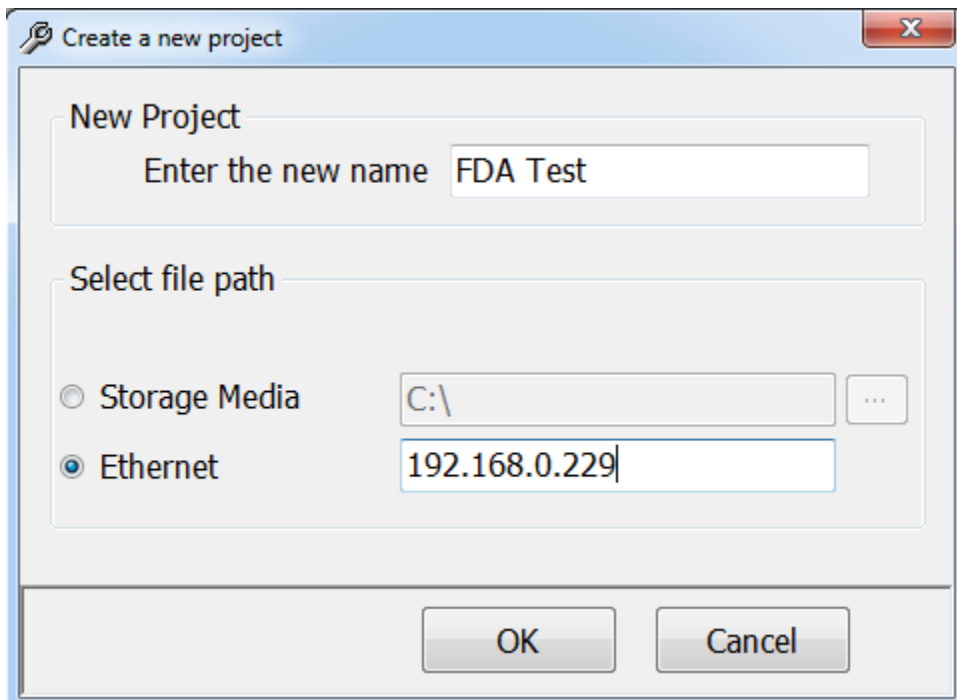


User Account											User2		mem 95% SD 90%		10:31:18 03/18/15			
1	2	3	4	5	6	7	8	9	10	11								
User Name: Thillai Active: Enable Security Level: 9																		
											▲							
											▼							
											↶							
															Back			

Procedure to Sign the Records: 簽署紀錄的程序

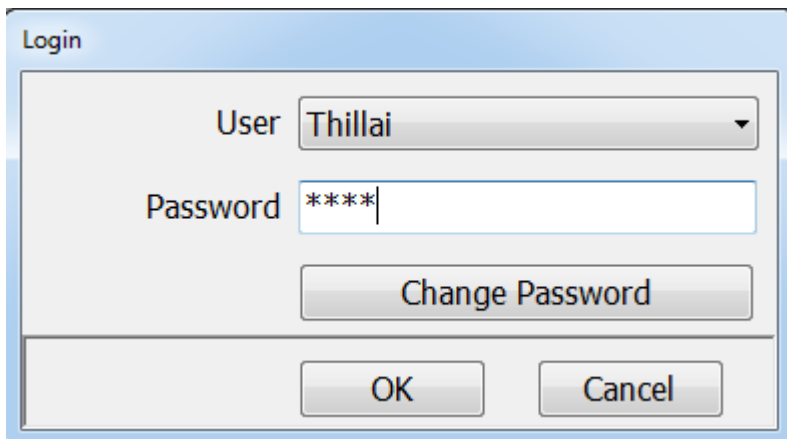
1. Open Historical Viewer Software on the PC 在電腦中開啟轉檔軟體
2. Create a New Project with the selection of Recorder type and the file path
新增一筆計劃案並設定路徑





3. Login with the Specific user and Password already created on the Recorder to Connect with PC.

使用記錄儀上已創建的特定用戶和密碼登錄以與 PC 連接

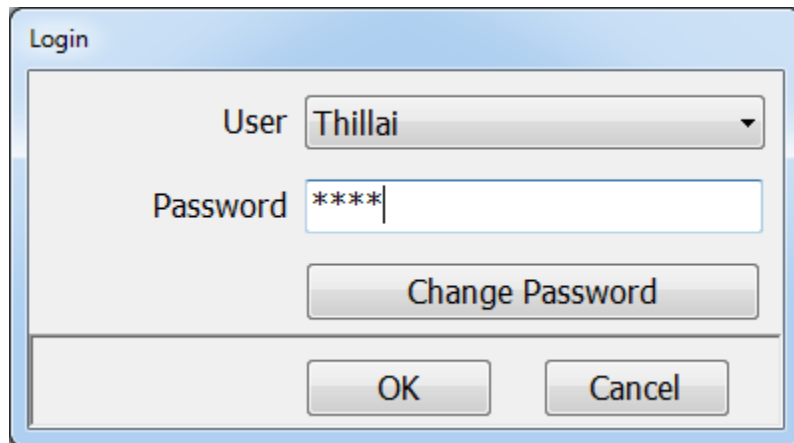


4. After Successful Login Press Yes on the below Message to receive the Configuration Setting of the Recorder.

成功登錄後，按下面的“是”，接收錄像機的配置設置

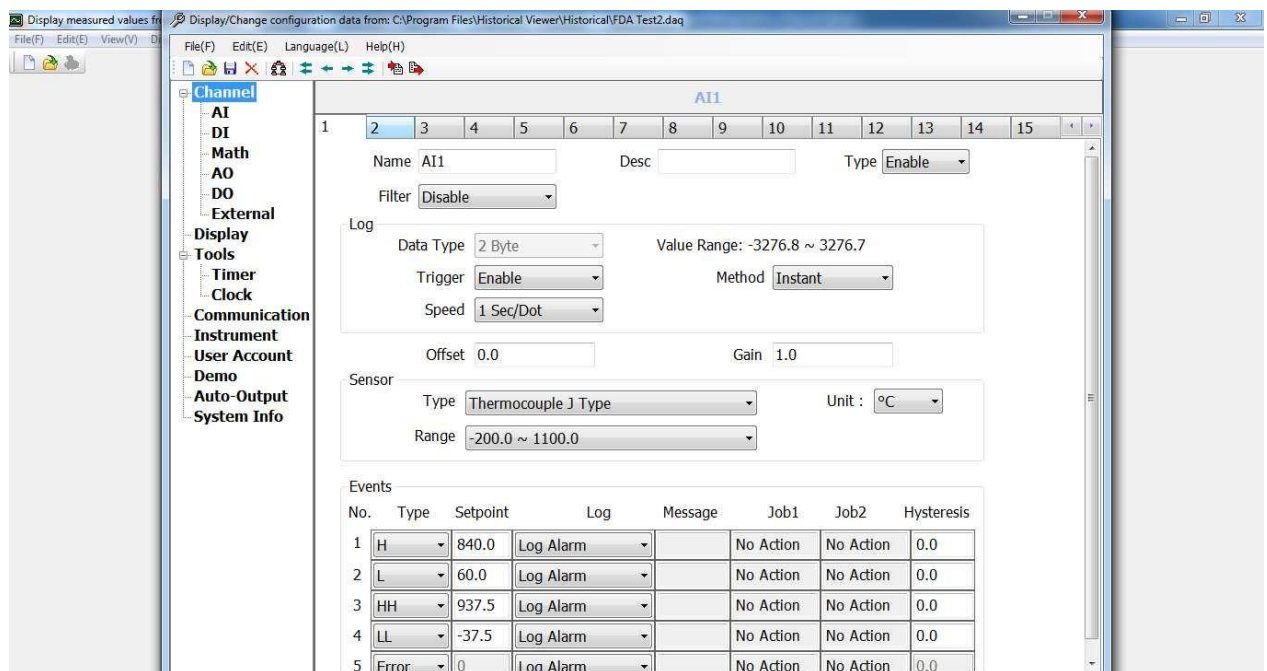


5. Login with the Specific user and Password already created on the Recorder to Connect with PC.
使用在 PC 上創建的特定用戶和密碼進行登錄



A login dialog box titled "Login". It contains a "User" dropdown menu with "Thillai" selected, a "Password" text field with "****" entered, a "Change Password" button, and "OK" and "Cancel" buttons at the bottom.

6. The Configuration Software will receive the Configuration from the Recorder.
組態將從記錄儀接收組態資訊



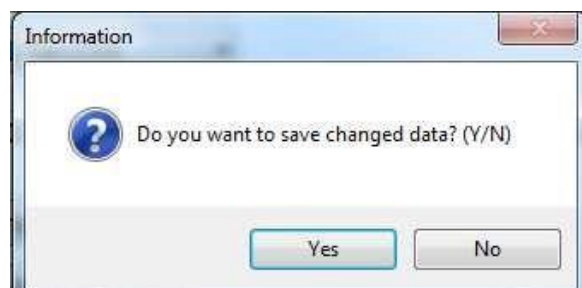
The Configuration Software interface shows a list of channels on the left and a detailed configuration for "AI1" on the right. The "AI1" configuration includes fields for Name, Desc, Type, Filter, Log (Data Type, Value Range, Trigger, Method, Speed), Offset, Gain, Sensor (Type, Unit, Range), and a table of Events.

No.	Type	Setpoint	Log	Message	Job1	Job2	Hysteresis
1	H	840.0	Log Alarm		No Action	No Action	0.0
2	L	60.0	Log Alarm		No Action	No Action	0.0
3	HH	937.5	Log Alarm		No Action	No Action	0.0
4	LL	-37.5	Log Alarm		No Action	No Action	0.0
5	Error	0	Log Alarm		No Action	No Action	0.0

7. Now Close the Configuration Software to Open Historical Viewer Software

關閉組態，開啟轉檔軟體

8. Select Yes to Save the Configuration 選擇"YES"保存組態



An "Information" dialog box with a question mark icon and the text "Do you want to save changed data? (Y/N)". It has "Yes" and "No" buttons.

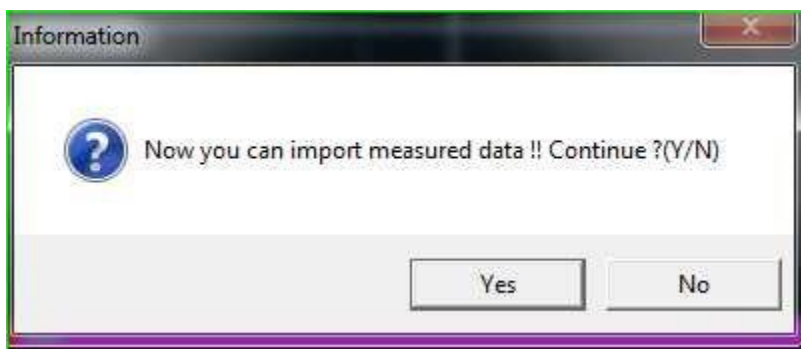
9. Login with Specific user and Password already created on the Recorder.

記錄器上已經創建的特定用戶和密碼登錄



10. Import the measured data automatically from Recorder by pressing Yes on the below Message

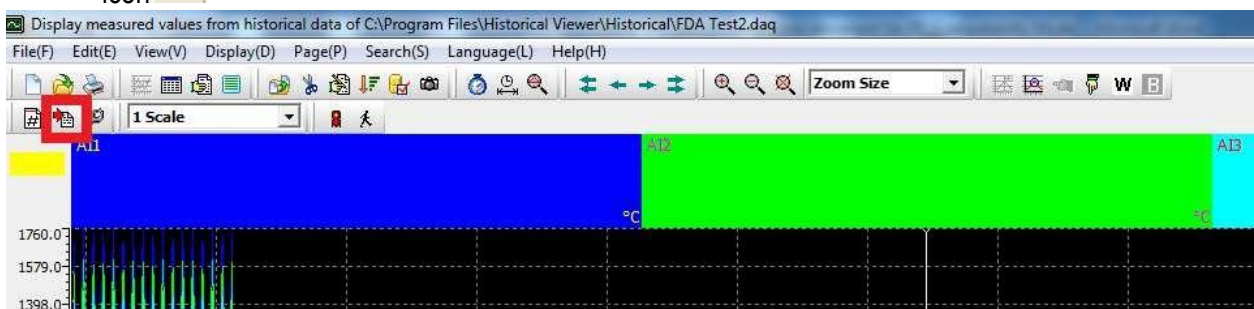
按“是”，從記錄儀自動導入測量數據



11. The measured data can be imported manually from the Recorder by clicking on the import

按“YES”測量的數據可以從記錄器手動導入

icon



12. Check all the Data. 確認數據

13. Then click on Signature at task bar available at bottom side of the screen in the historical viewer

然後單擊歷史查看器中屏幕底部可用任務欄上的簽名



14. Then signature section will appear as follows 然後簽名部分將顯示如下

Sign	No.	Signature	Time	Status	Comment
	1	Thillai	03/18/15 11:07:00	Pass	OK
	2	Administrator	03/18/15 11:12:23	Pass	Check

Seek by Tag Name	Seek by Event/Alarm	Seek by Trend Remark	Seek by Signature	Trend Scale List
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Page1	Zoom Rate :53.3 Sec/Dot	Index Time : 03/18/15 01:30:02
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15. By default “Sign” button will be disabled as shown above. Once latest data is imported from recorder to PC using  Icon, then “Sign” button is enabled. Now user can sign the record with his comments as per the following image.

“Sign”按鈕將被禁用，如上所示。使用圖標將最新數據從記錄器導入電腦，然後啟用“Sign”按鈕。現在，用戶可以按照以下圖像以他的評論來簽名記錄。

Sign	No.	Signature	Time	Status	Comment
	1	Thillai	03/18/15 11:07:00	Pass	OK
	2	Administrator	03/18/15 11:12:23	Pass	Check

Seek by Tag Name	Seek by Event/Alarm	Seek by Trend Remark	Seek by Signature	Trend Scale List
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Page1	Zoom Rate :53.4 Sec/Dot	Index Time : 03/18/15 01:31:05
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Status: Select Pass/ Fail 狀態：選擇通過/失敗

Comment: Give your comments about the checked data 提供您對檢查數據的意見

Then press "OK" to complete signature process which is equal to signing of paper record.

然後按“確定”完成與簽名紙質記錄相同的簽名過程

FDA CFR21 Part 11 Section 11.10 (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 (FDA)"

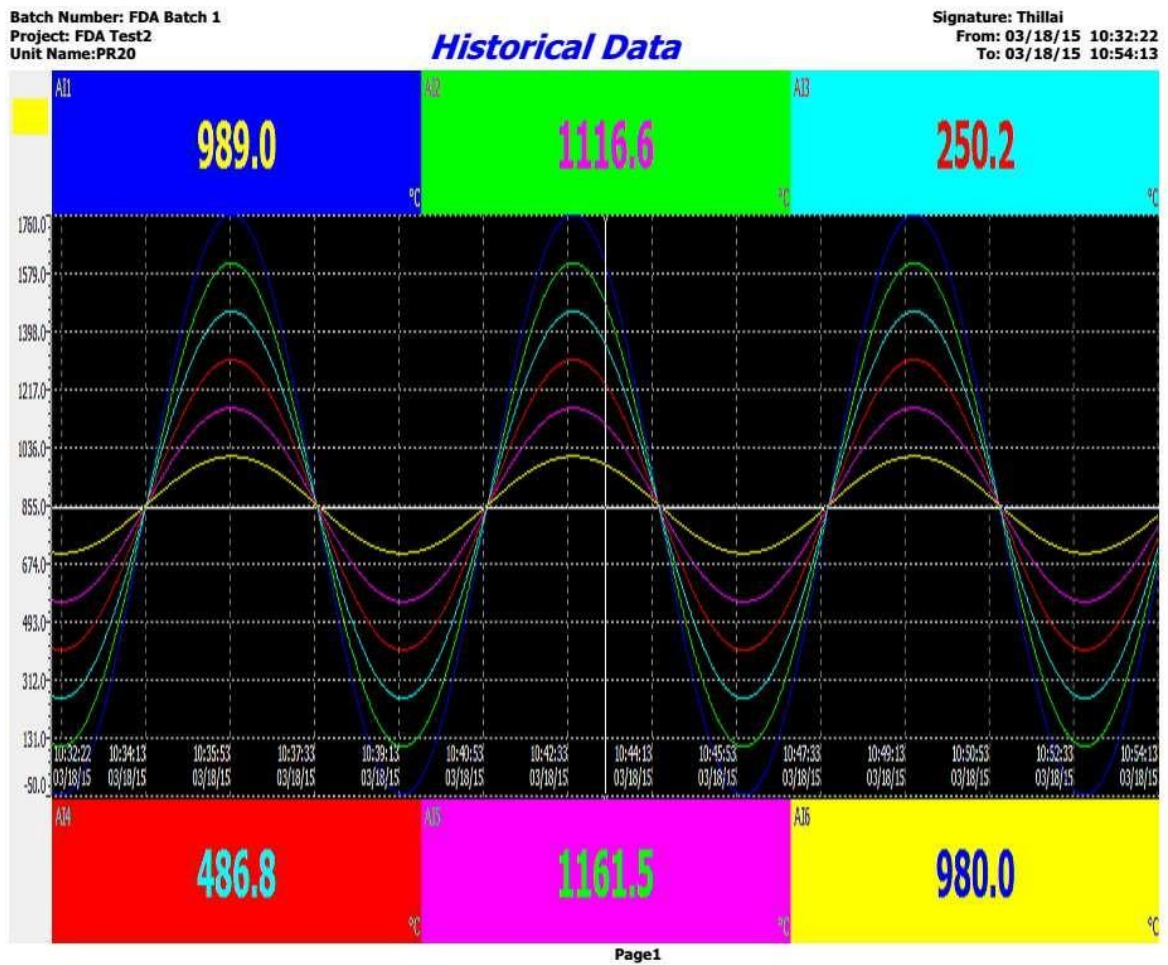
Paperless recorder can create process data files on Secure Digital memory (SD card) or on USB Flash Disk in proprietary format. These data files are created from secure records stored in internal flash memory. Error detection algorithms are employed to ensure that the stored data faithfully represents the actual raw measurements made by the recorder. Each write to the archive media is also verified to ensure the integrity of the data record. The archived process data files can be viewed using the Historical Viewer review software. The data can be viewed and printed in graphical formats. Standard spreadsheet formats (e.g. Microsoft Excel) of the archived data files can be created for viewing by users who do not have the review software.

能夠以適用於機構（FDA）的檢查，審查和復制的人類可讀和電子形式生成準確和完整的記錄副本“

無紙記錄儀可以在安全數字存儲器（SD卡）或專用格式的USB閃存盤上創建過程數據文件。這些數據文件由存儲在內部閃存中的安全記錄創建。使用錯誤檢測算法來確保存儲的數據忠實地表示由記錄器進行的實際原始測量。每個對歸檔介質的寫入也被驗證，以確保數據記錄的完整性。可以使用“歷史查看器”審閱軟件查看歸檔過程數據文件。數據可以以圖形格式查看和打印。可以創建歸檔數據文件的標準電子表格格式（例如Microsoft Excel），供沒有審閱軟件的用戶查看。

D The Historical data can be Viewed and Printed in Graphical format like below image.

歷史數據可以以圖形格式查看和打印，如下圖所示



歷史數據和事件數據可以以標準電子表格格式查看和打印，如下圖所示

[illegible]

Pen File Image: 記錄筆數資料檔案

	A1	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Date	Time	AI1	AI2	AI3	AI4	AI5	AI6	AI7	AI8	AI9	AI10	AI11	AI12	AI13	AI14	AI15	AI16	AI17	AI18	AI19
2			Instant	Instant	Instant	Instant	Instant	Instant	Instant	Instant	Instant	Instant	Instant	Instant	Instant	Instant	Instant	Instant	Instant	Instant	Instant
3			°C	°C	°C	°C	°C	°C	°F	°F	°F	°F	°F	°F	°C	%	%	%	%	%	°F
4	17-03-15	15:46:49	709.5	822.8	154.1	371.8	1031.1	915.2	-22	113.6	-147.8	153.3	1266.7	1370.5	122.7	67.43	58.71	23.85	32.57	41.28	191
5	17-03-15	15:46:50	717.6	831.4	156.9	375.1	1034.9	917.1	-11.8	124.3	-144.3	157.5	1271.5	1372.8	124.8	68	59	22.98	31.98	40.99	190
6	17-03-15	15:46:51	726.2	840.4	159.9	378.7	1038.9	919.1	-1	135.7	-140.6	162	1276.6	1375.4	127.1	68.62	59.31	22.05	31.36	40.68	190
7	17-03-15	15:46:52	734.8	849.4	162.8	382.2	1042.9	921	9.9	147.2	-136.9	166.5	1281.7	1377.9	129.3	69.25	59.62	21.11	30.74	40.37	189
8	17-03-15	15:46:53	743.7	858.7	165.9	385.8	1047	923.1	21.2	159.1	-132.9	171.2	1286.9	1380.5	131.6	69.89	59.94	20.14	30.1	40.05	188
9	17-03-15	15:46:54	752.7	868.3	169	389.6	1051.2	925.2	32.9	171.4	-128.9	176	1292.4	1383.2	134	70.56	60.28	19.14	29.43	39.71	187
10	17-03-15	15:46:55	761.7	877.7	172.1	393.3	1055.4	927.3	44.6	183.7	-124.9	180.8	1297.9	1386	136.4	71.23	60.61	18.14	28.77	39.38	186
11	17-03-15	15:46:56	770.7	887.1	175.1	396.9	1059.6	929.4	56.3	196	-120.9	185.6	1303.3	1388.7	138.8	71.89	60.94	17.14	28.1	39.05	185
12	17-03-15	15:46:57	779.5	896.4	178.1	400.5	1063.8	931.4	68	208.3	-116.9	190.4	1308.8	1391.4	141.2	72.56	61.28	16.15	27.43	38.71	185
13	17-03-15	15:46:58	788.2	905.6	181.1	404.1	1067.9	933.5	79.7	220.6	-112.8	195.2	1314.2	1394.1	143.6	73.23	61.61	15.15	26.77	38.38	184
14	17-03-15	15:46:59	796.9	914.7	184.1	407.7	1071.9	935.5	91.4	232.9	-108.8	200.1	1319.7	1396.8	146	73.89	61.94	14.15	26.1	38.05	183
15	17-03-15	15:47:00	804.4	922.6	186.8	410.8	1075.4	937.2	101.6	243.6	-105.3	204.3	1324.5	1399.1	148.1	74.47	62.24	13.28	25.52	37.75	182
16	17-03-15	15:47:01	811.8	930.4	189.3	413.9	1078.8	938.9	111.7	254.2	-101.9	208.4	1329.2	1401.5	150.2	75.05	62.52	12.42	24.94	37.47	181
17	17-03-15	15:47:02	820	938.9	192.1	417.2	1082.6	940.8	123	266.1	-98	213.1	1334.4	1404.1	152.5	75.69	62.84	11.45	24.3	37.15	180
18	17-03-15	15:47:03	827.8	947.1	194.8	420.4	1086.3	942.6	133.9	277.6	-94.3	217.6	1339.5	1406.7	154.7	76.32	63.15	10.51	23.67	36.84	17
19	17-03-15	15:47:04	835.7	955.5	197.5	423.7	1090	944.4	145.2	289.5	-90.3	222.2	1344.8	1409.3	157.1	76.96	63.47	9.54	23.03	36.52	178
20	17-03-15	15:47:05	843.3	963.5	200.1	426.8	1093.5	946.2	156.1	301	-86.6	226.7	1349.9	1411.8	159.3	77.59	63.79	8.61	22.41	36.2	177
21	17-03-15	15:47:06	850.6	971.1	202.6	429.8	1096.9	947.9	166.7	312	-83	231.1	1354.8	1414.3	161.4	78.19	64.09	7.72	21.81	35.9	176
22	17-03-15	15:47:07	858.3	979.3	205.3	433	1100.5	949.7	178	323.9	-79.1	235.7	1360.1	1416.9	163.8	78.83	64.41	6.75	21.17	35.58	175
23	17-03-15	15:47:08	865.7	987	207.8	436.1	1103.9	951.4	188.9	335.4	-75.4	240.2	1365.2	1419.4	166	79.45	64.72	5.82	20.54	35.27	174
24	17-03-15	15:47:09	872.7	994.4	210.3	439	1107.2	953	199.4	346.5	-71.7	244.6	1370.1	1421.9	168.2	80.05	65.02	4.91	19.94	34.97	173
25	17-03-15	15:47:10	879.7	1001.7	212.6	441.8	1110.5	954.6	210	357.5	-68.1	248.9	1375	1424.3	170.3	80.65	65.32	4.01	19.34	34.67	171

FDA CFR21 Part 11 Section11.10 (c)

“Protection of records to enable their accurate and ready retrieval throughout the records retention period”

Paperless recorder use solid state flash memory, for data storage, in the form of Secure Digital card or USB Flash Disk. Data retention for this device is specified at a minimum of 10 years. It provides Zero power data retention i.e. the data integrity is not dependent on battery back-up. The data is not affected by magnetic fields. For even longer term data storage the archive files can be copied to CDRom or to a network file server.

FDA CFR21 Part 11 Section11.10 (d)

“Limiting system access to authorized individuals.”

Paperless recorder provide the ability to limit access to the instruments configuration and critical operator functions. For each user a unique id and password can be created for access to the configuration parameters. The id and password can be alphanumeric and up to 18 characters in length. In order to gain access to the configuration parameters, a valid operator id and password combination should to be entered. Any modification of the instruments configuration is recorded in the audit log identifying the user responsible for the change. Paperless recorder will logout automatically after a period of inactivity say 10 minutes.

Instrument



mem96%

SD90%

11:44:39
18/03/15

Instrument

Select

Language

Security M

Logout:

Passwo

Security

Login

Dump

Clear

Opera

Confi

Pause

ShutD

Batch Con

Volume: 1

Tool Bar

10 Min

Disable

1 Min

2 Min

3 Min

4 Min

5 Min

6 Min

7 Min

8 Min

9 Min

10 Min

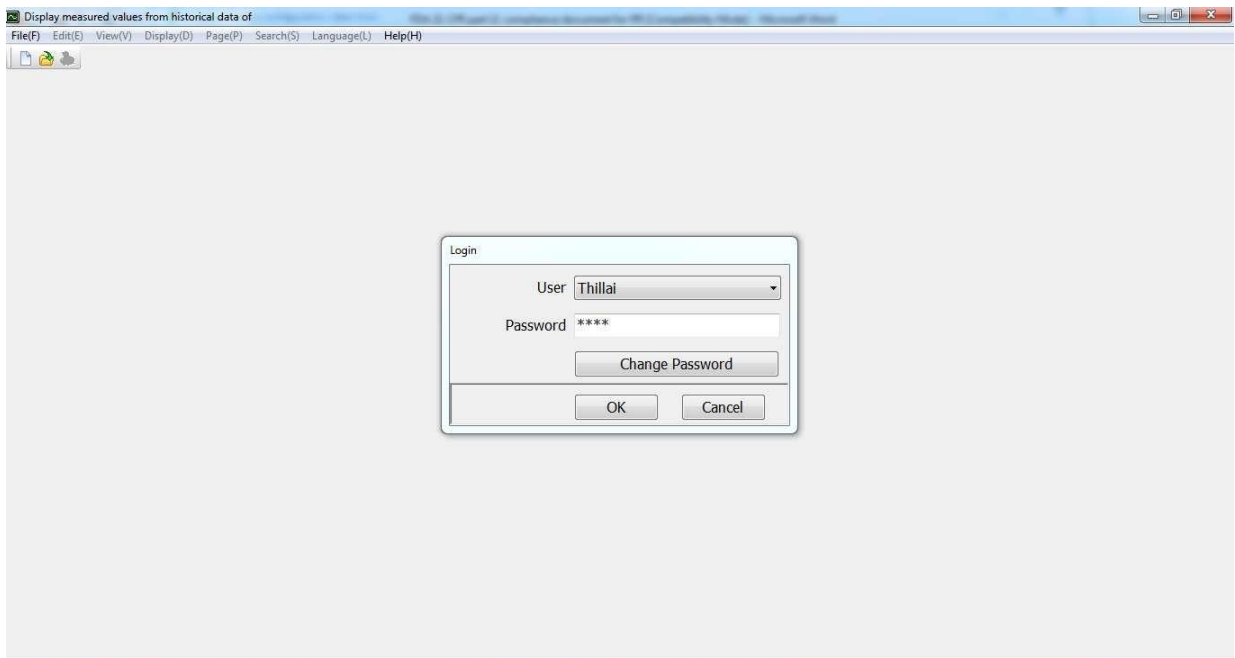
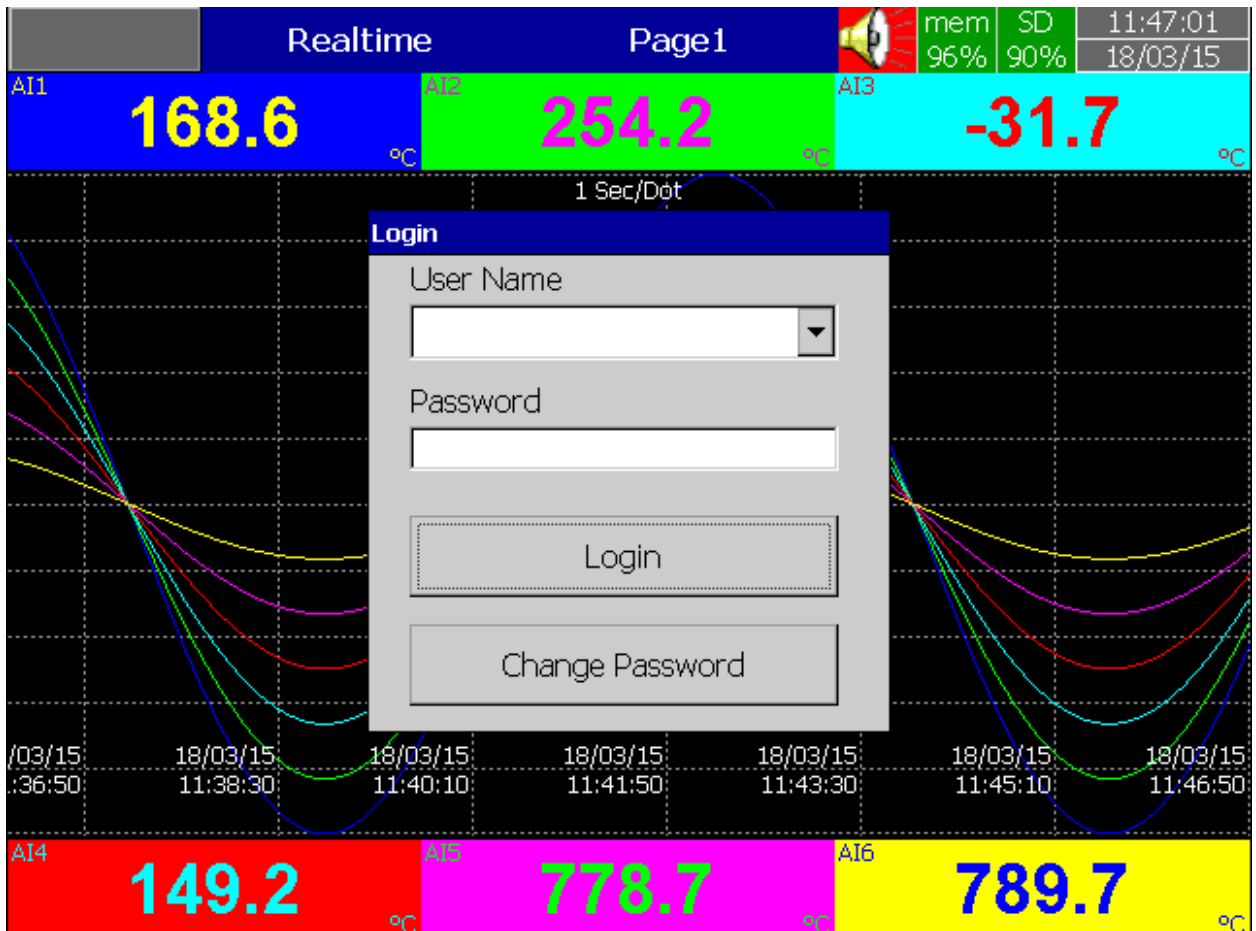
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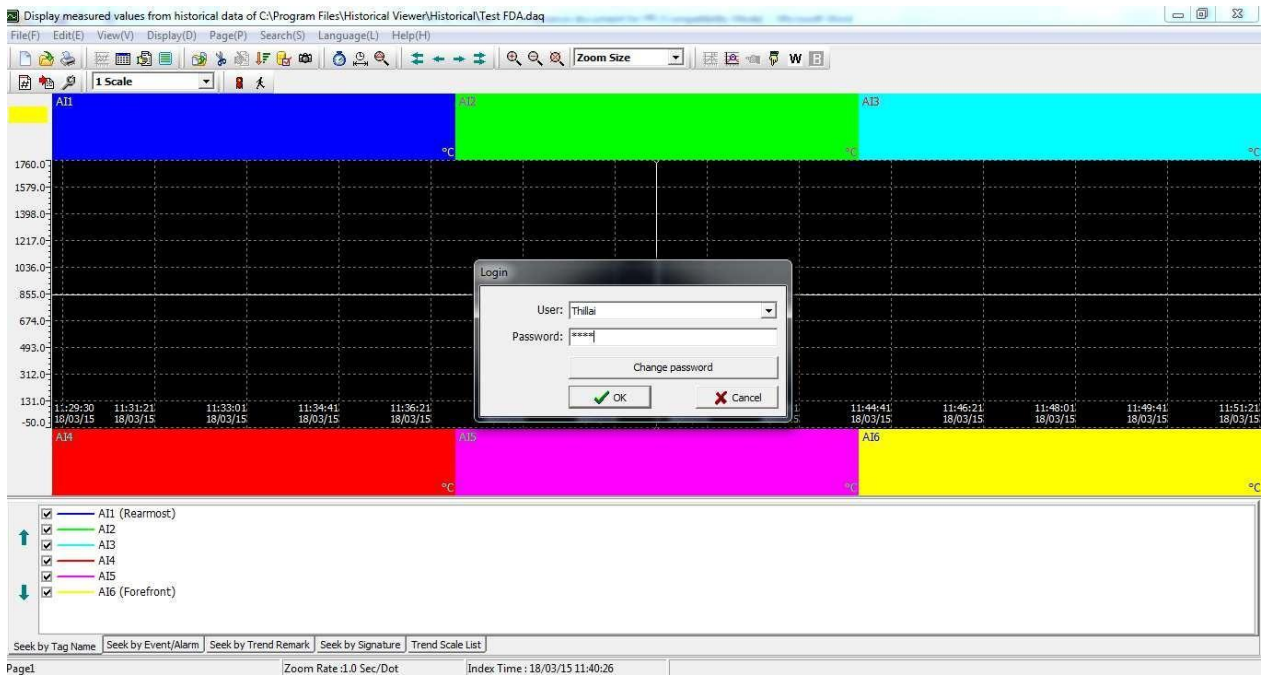
▼

OK

Cancel

Instrument			mem 96%	SD 90%	11:45:39 18/03/15
Instrument					
- Language: English - Security Mode: CFR-21 Logout: 10 Min - Password validity: Unlimited - Security Level of Functions - Login From PC: 9 - Dump: 9 - Clear: 9 - Operate: 9 - Config: 9 - Pause: 9 - ShutDown: 9 - Batch Control: Disable - Volume: 1 - Tool Bar					▲ ▼ ↶
					Back





FDA CFR21 Part 11 Section 11.10 (e)

"Use of secure, computer-generated, time-stamped audit trails to independently record the date and time of operator actions that create, modify or delete electronic records", Record changes shall not obscure previously recorded information. Such audit trail documentation shall be retained at least as long as that required for the subject electronic records and shall be available for agency review and copying"

The Paperless recorders automatically produce a time stamped audit trail that includes power failure and recovery, configuration changes, data dumping and clearing, critical operator functions. This information is stored in an audit log which can be archived to a permanent file on Secure Digital card or on USB Flash Disk. A separate alarm/event log automatically produces a time stamped record of all alarm state changes and can also be archived to a permanent file.

Event

mem

96%

SD

90%

11:54:08

18/03/15

Event

Report

No.	Active Time	Type	Name
14	18/03/15 11:31:06	LoLoAlarm	AI13
15	18/03/15 11:31:06	HiHiAlarm	AI16
16	18/03/15 11:31:10	LoAlarm	AI1
17	18/03/15 11:31:14	LoAlarm	AI14
18	18/03/15 11:31:14	HiAlarm	AI17
19	18/03/15 11:31:20	LoAlarm	AI2
20	18/03/15 11:31:23	LoLoAlarm	AI1
21	18/03/15 11:31:41	LoLoAlarm	AI2
22	18/03/15 11:31:41	LoAlarm	AI3
23	18/03/15 11:33:41	LoLoAlarm	AI8
24	18/03/15 11:33:41	LoAlarm	AI9
25	18/03/15 11:38:34	Logout	Thillai
26	18/03/15 11:43:52	Login	Thillai
27	18/03/15 11:46:50	Logout	Thillai
28	18/03/15 11:48:52	NetLogout	Thillai
29	18/03/15 11:50:41	NetLogin	Thillai
30	18/03/15 11:51:26	NetLogout	Thillai

Storage

Internal

Display measured values from historical data of C:\Program Files\Historical Viewer\Historical\Test FDA.daq

No./Ack	Type	Source	Active Time	Clear Time	Value/Contents
1	NetDump	Administrator	18/03/15 11:28:49		
2	LoAlarm	AI19	18/03/15 11:29:29	Terminated	132.18
3	LoAlarm	AI20	18/03/15 11:29:39	Terminated	133.34
4	LoLoAlarm	AI19	18/03/15 11:29:42	Terminated	-40.47
5	HiAlarm	AI17	18/03/15 11:29:48	Terminated	1547.51
6	HiAlarm	AI8	18/03/15 11:30:00	Terminated	1910.06
7	LoLoAlarm	AI20	18/03/15 11:30:00	Terminated	-92.58
8	LoAlarm	AI21	18/03/15 11:30:00	Terminated	-215.28
9	HiHiAlarm	AI17	18/03/15 11:30:03	Terminated	1721.84
10	HiHiAlarm	AI8	18/03/15 11:30:18	Terminated	2129.00
11	HiAlarm	AI9	18/03/15 11:30:19	Terminated	514.82
12	LoAlarm	AI13	18/03/15 11:30:59	Terminated	-15.44
13	HiAlarm	AI16	18/03/15 11:30:59	Terminated	80.60
14	LoLoAlarm	AI13	18/03/15 11:31:06	Terminated	-30.00
15	HiHiAlarm	AI16	18/03/15 11:31:06	Terminated	87.50
16	LoAlarm	AI1	18/03/15 11:31:10	Terminated	55.66
17	LoAlarm	AI14	18/03/15 11:31:14	Terminated	19.73
18	HiAlarm	AI17	18/03/15 11:31:14	Terminated	80.27
19	LoAlarm	AI2	18/03/15 11:31:20	Terminated	56.30
20	LoLoAlarm	AI1	18/03/15 11:31:23	Terminated	-39.59
21	LoLoAlarm	AI2	18/03/15 11:31:41	Terminated	-68.75
22	LoAlarm	AI3	18/03/15 11:31:41	Terminated	-137.23
23	LoLoAlarm	AI8	18/03/15 11:33:41	Terminated	-94.84
24	LoAlarm	AI9	18/03/15 11:33:41	Terminated	-216.02
25	Logout	Thillai	18/03/15 11:38:34		
26	Login	Thillai	18/03/15 11:43:52		
27	Logout	Thillai	18/03/15 11:46:50		
28	NetLogout	Thillai	18/03/15 11:48:52		
29	NetLogin	Thillai	18/03/15 11:50:41		
30	NetLogout	Thillai	18/03/15 11:51:26		
31	Login	Thillai	18/03/15 11:53:45		
32	NetLogin	Thillai	18/03/15 11:55:32		

FDA CFR21 Part 11 Section 11.10 (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.”

The Recorders security system outlined in part d) limits access to the system to modify any configuration parameters.

FDA CFR21 Part 11 Section 11.10 (h)

“Use of device (e.g., terminal) checks to determine, as appropriate, the validity of the source of data input or operational instruction”.

System errors and input channel status are logged

FDA CFR21 Part 11 Section 11.10 (i)

“Determination that the persons who develop, maintain, or use electronic record/electronic signature systems have the education, training and experience to perform their assigned tasks.”

Only suitably qualified people are employed in product design & development and their training is updated to meet advances in technology.

FDA CFR21 Part 11 Section 11.10 (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.”

A design control system is used which is fully documented and traceable. Documentation is provided for installation, configuration and operation in the instruments User Guide.

FDA CFR21 Part 11 Sub Part C Section 11.300: Controls for identification codes/passwords

"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:

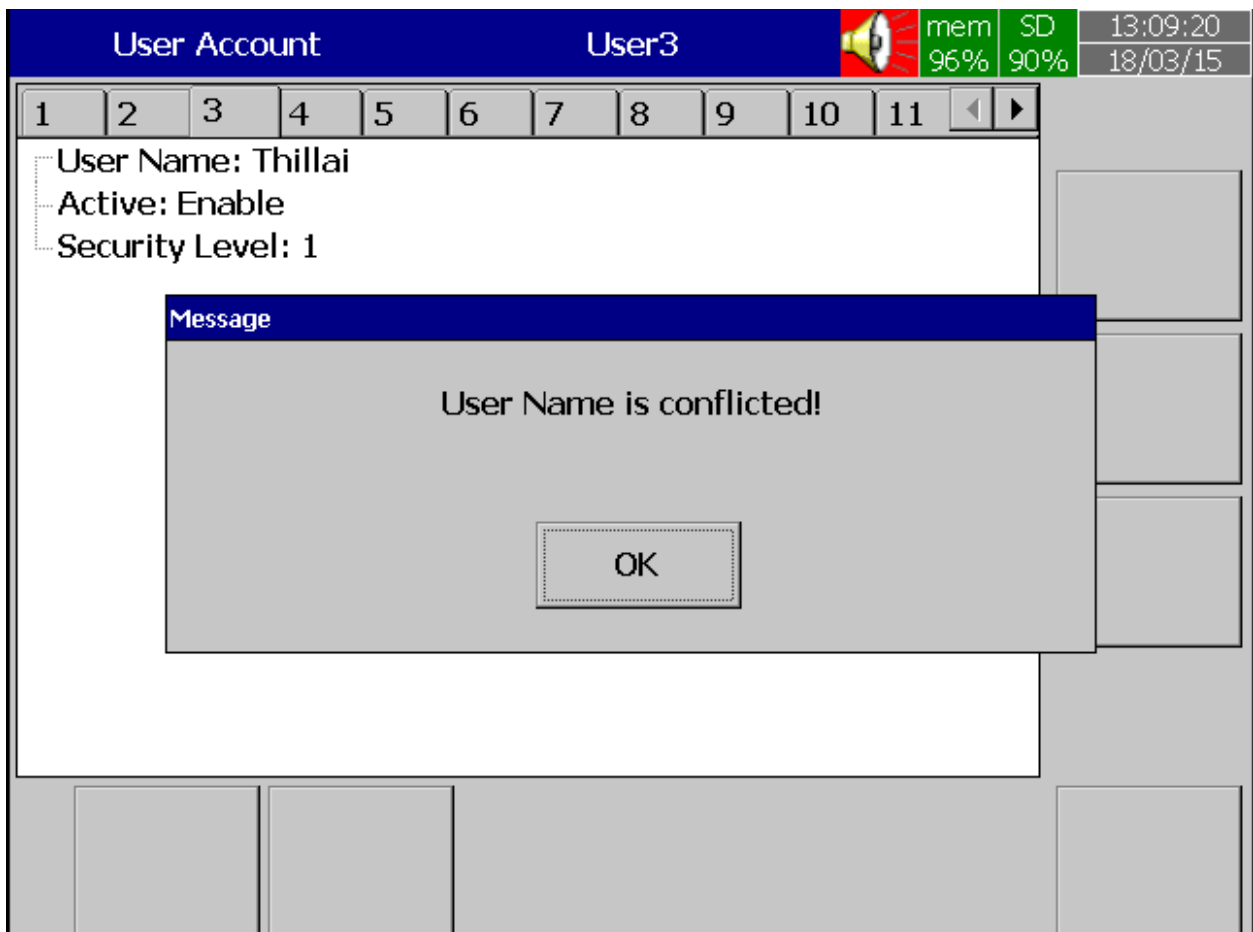
(a) Maintaining the uniqueness of each combined identification code and password, such that no two individuals have the same combination of identification code and password.

(b) Ensuring that identification code and password issuances are periodically checked, recalled, or revised (e.g., to cover such events as password aging).

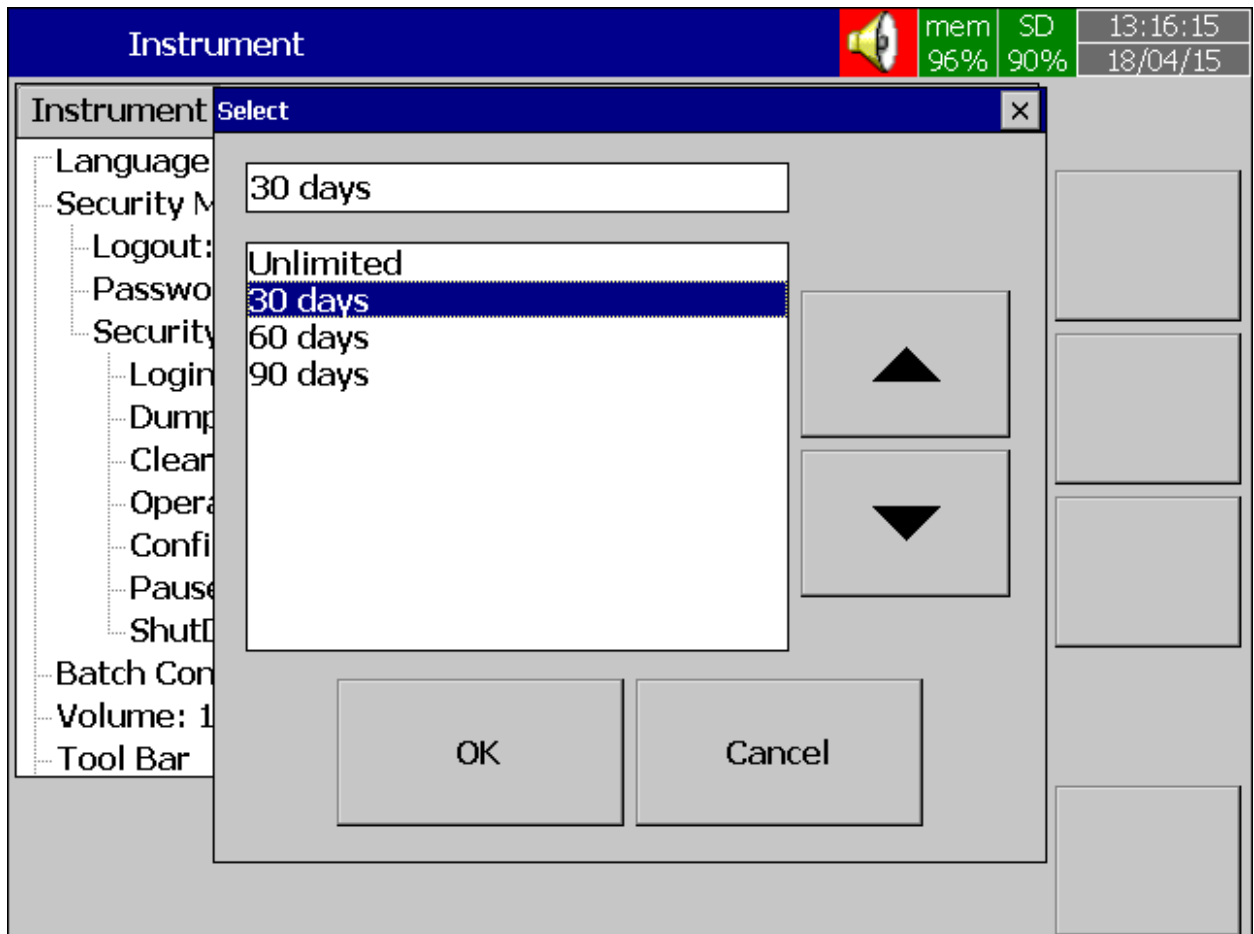
(c) Following loss management procedures to electronically deauthorize lost, stolen, missing, or otherwise potentially compromised tokens, cards, and other devices that bear or generate identification code or password information, and to issue temporary or permanent replacements using suitable, rigorous controls.

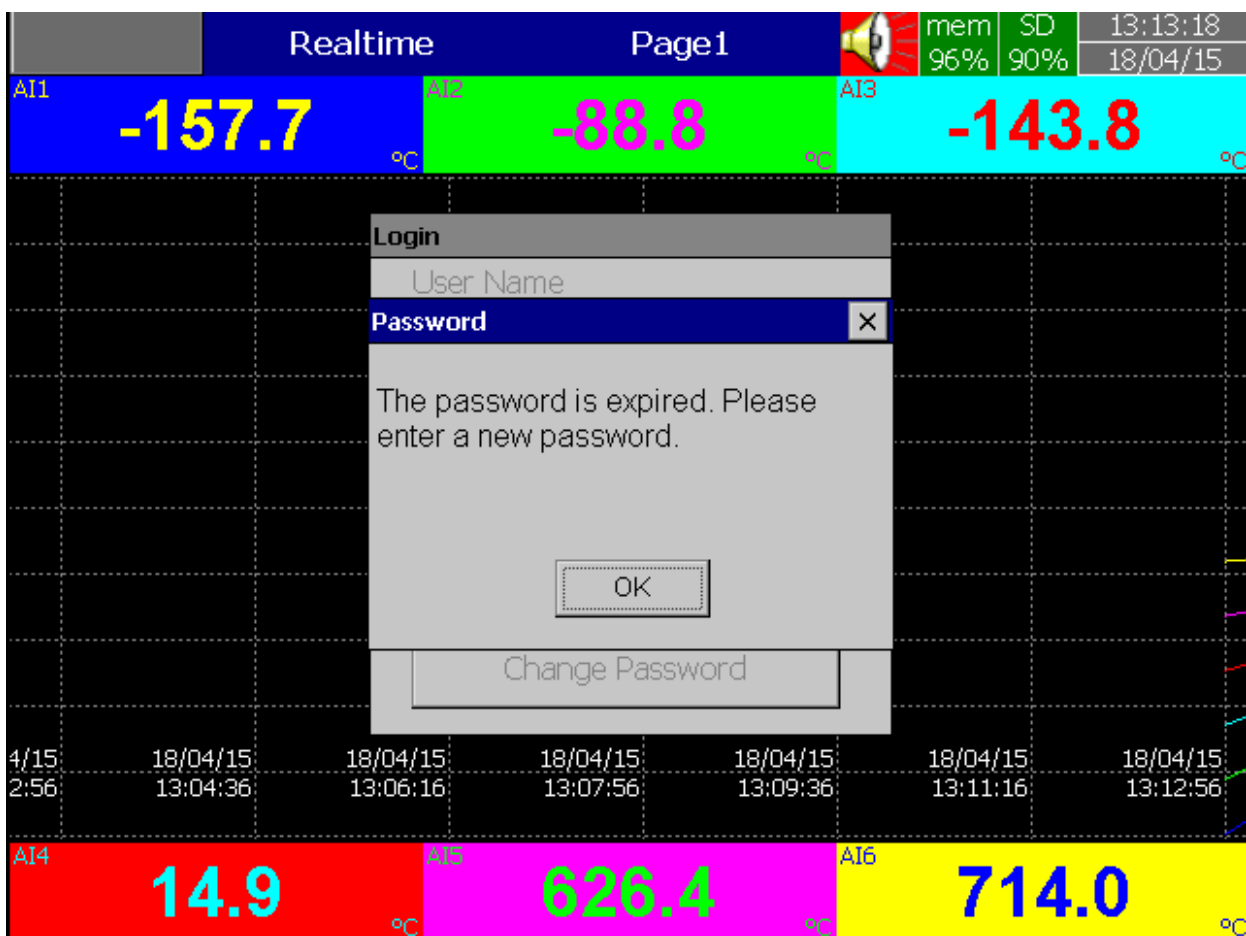
(d) Use of transaction safeguards to prevent unauthorized use of passwords and/or identification codes, and to detect and report in an immediate and urgent manner any attempts at their unauthorized use to the system security unit, and, as appropriate, to organizational management.

Any duplication of user name from a new created account will be forbidden.



Force the user to enter a new password when the time of password expires.





Any event of failed login will be logged for audit trail.



Event



mem96%SD90%

13:18:41
18/04/15

EventReport

No.	Active Time	Type	Name
8	18/03/15 12:38:59	NetLoginFailed	User3
9	18/03/15 12:39:01	NetLoginFailed	User5
10	18/03/15 12:39:13	NetLoginFailed	Administrator
11	18/03/15 12:39:23	NetLogin	Administrator
12	18/03/15 12:49:33	NetLogout	Administrator
13	18/03/15 12:50:31	NetLogin	Administrator
14	18/03/15 13:00:40	NetLogout	Administrator
15	18/03/15 13:00:49	NetLogin	Thillai
16	18/03/15 13:04:10	Login	Thillai
17	18/03/15 13:05:55	PowerOff	
18	18/03/15 13:07:53	PowerOn	
19	18/03/15 13:08:08	LoAlarm	AI7
20	18/03/15 13:08:08	LoLoAlarm	AI7
21	18/03/15 13:08:08	LoAlarm	AI8
22	18/03/15 13:08:08	LoLoAlarm	AI8
23	18/03/15 13:08:08	LoAlarm	AI9
24	18/03/15 13:08:08	HiAlarm	AI19

Storage

Internal













