Tightening Number Managing Controller UTM – 1500 Setting Software Instruction Manual

(Setting Software V1.4) (Main Unit Software V1.04)



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Screen Layout



Main Menu Screen

This screen allows screen selection.

🔞 UTM-1500 - [メインメニュー]		_ 🗆 >
ファイル名:×001	設備/ワーク名: UFT-16	
	F1 :ファイル選 択	
	F2 :設 定	
	F3 :最終データ受信	
	F4 :圧 力 値 表 示	
	F5 :波 形 デ ー タ 受 信	
	F6 :統 計	
	F7 :入出力 チェック	
	F8:ツール管理	
	F11:環 境 設 定	
	F12:終了	
- 「月」」 「月」] 「月」] ファイル選択 設定 テータ受信 Z	F」当 F」5 F」5 F」1	
	PC:V1.33 本体:V0.00 UTM-1500 URYU (C) 2004 2005年03月05日 (土) 11	:39:36

(1) When $\frac{\mathbb{F}_{4}}{2\pi M^{2}\mathbb{R}}$ is selected, "File Selection" screen will appear.

(2) When is selected, "Setting Menu" screen will appear.

(3) When $\frac{1}{2}$ is selected, "Final Data Reception" screen will appear.

(4) When $\frac{F_{a}}{2EROB}$ is selected, "Pressure Value Display" screen will appear.

(5) When is selected, "Waveform Data Reception" screen will appear.

(6) When is selected, "Statistics" screen will appear.

(7) When \vec{F}_{Add} is selected, "Input /Output Check" screen will appear.

- (8) When $\frac{\mathbb{F}_{\mathbb{F}}}{2^{-k^{\frac{2}{2}}}}$ is selected, "Tool Management" screen will appear.
- (9) When Fills is selected, "Environment Setting" screen will be displayed.

(10) When 部部 is selected, the pop-up screen on the right will be displayed. Selecting will finish the software, while selecting いいえい will cancel finish option.



File Selection Screen

🔞 ИТМ	ר] – 1500	ァイル選択]										<u> </u>
No.		ファイル	洺		作成E]時			設備/5	ワーク名		
1	uryu			200	<u>)5703709</u>	5 11:27	TEST					
2	uryu2			200	05/03/09	5 11:27	TEST2					
FL	िह्य	l E a l	E U I	E S I	E E I	로미	E II	F 9	l e m	l e u l	E N I	
」」。」 新規作6	成 削除	変更	U U	いっ 当 印刷	☞ □ □ 保存	』』 読込	5-9	U o d	5-10	10.0	」。1915 メインメニュー	
				PC:V	1.33 本体:\	/0.00	UTM-1500	URYU (C	2004 200)5年03月05	日(土)11:	28:05 //

• File Selection will appear first at the start of the software.

- (1) Select File to create a new file, and click OK after typing in File Name" and "Tool/Work Name".
- (2) Selecting while putting the cursor on a file to be deleted will call up the pop-up window shown on the right. Select
 to delete the selected file.
- UTM-1500 × 設定ファイル゙x001″を削除します。よろしいですか? (はいひ) いいえい

- (3) Select **F** to change "Tool/Work Name".
- (4) Selecting enables File Selection screen printout. To start printing, select OK on the screen shown on the right.

プリンタ名(N): Canon LBP-750 LIPS4	▼ プロパティ(P)
- ,	
種類: Canon LBP-750 LIPS4	
場所: ¥¥Shisaku1¥canon	□ ファイルへ出力心
: 10	
印刷範囲	调韵数
 すべて(A) 	部数©> 1 🛨
C ページ指定(④) □ ページから(E)	
■ ページまで(D)	1 2 3 3
€ 選択した部分(S)	
	· · · · · · · · · · · · · · · · · · ·

(5) Select for to save setting values on a floppy disk or other memory device. Touch for while putting the cursor on a file to be saved and specify the intended save place using the folder list window.

(6) Select to import setting values from a floppy disk or other memory device upon specifying the import source using the folder list window.

- (7) Touch $\mathcal{F}_{\mathcal{H}}^{\mathbb{P}}$ to return to Main menu.
- (8) File Selection will appear first at the start of the software.

₽ ⊘17	[*] ス外ップ [*]		-
	- 🚽 3.5 インチ FD	(A:)	
E			
	🗐 リムーバブル	ディスク (F:)	
E	∃ <u>22</u> (G) □ === 'Ω3111' σ	De dete (U)	-
	e ⊋ Gikal-n(1 0. - ₽ 'Cadea-p1' 0) Quick (Q:)	
i in-⊴	うマイドキュメント		-

Setting Screen

-						
ファイル名:x001	設備/ワーク名:	:UFT-16				
設定項目		ワーク1	ワーク2	ワーク3	ワーク4	
ツール種類		シャットオフウール				
圧力センサー入力種類		専用圧力センサ				
ライン管理方式選択		LS1				
端子台入力内容選択 (IN1)	LS1	N			
端子台入力内容選択 (IN2)	RESET				
端子台入力内容選択(IN3)	NOK RESET	1.52			
端子台入力内容選択 (IN4)	QL	RES	et 🔪		
端子台入力内容選択 (IN5)	WORK SELECT	A NOK	RESET	∀ For non-n	umerical
端子台入力内容選択 (ING	;)	TORK SELECT	B QL	_)	setting, se	lect any
端子台出力内容選択 (OUT	(1)	COUNT OK	- PAS WOE	S RK SELECT A	one from the	ne menu
端子台出力内容選択 (OUT	(2)	COUNT NOK	WOF	RK SELECT B		
端子台出力内容選択 (OUT	(3)	縴付OK	WOF	RK SELECT 1	your mouse	
端子台出力内容選択 (OUT	4)	締付NOK	WOF	RK SELECT 2		
端子台出力内容選択 (OUT	5)	ブザー用出力	WOF	RK SELECT 3		
WORKNo.切換タイミング		タイミング無し	PS			
締付異常時再締付		再締付開始にて	締付NOK クリ	7		
締付開始圧力[MPa]		0.10				1
シャットオフ圧力 [WPa]		0.30		Click	ing a	
パルスカウント圧力差[WPa]		0.020		nume	erical setting	
1パルスタイマ[msec]		10.0		Sot F	lin cans up	
カットパルス数		0		Wind	low Input	
パルス敷下限値		0	لر ام ا		zalue	
パルス敷上限値		0	0 - :	direc	tly according	
ONタイマ[∎sec]		700	700	70 to th	e range.	
OFFタイマ[∎sec]		800	800	800		
締付OK出力タイマ[∎sec]		1000	1000	1000	1000	
カウントOK出力タイマ[∎se	:c]	1000	1000	0	1000	
初期異常検出タイマ[msec]		0	0	0	0	
サイクル異常検出タイマ[∎se	:c]	0	0	0	0	
ライン管理タイマ[sec]		100	100	100	100	
警告出力タイマ[sec]		0	0	0	0	
締付本敷		99	99	99	99	
締付確認ブザー音量		5				
NOKブザー音量		5				
キー確認音量	5					
LCD表示内容		標準				
QLレンチチャタリング防止タ	イマ	30				
	4		4	1 4	4	
F.I F.B F.B			F.I F.E	, F.J	F.II F.II	F.B
	<u></u>					<u> 1177_1</u>
		PC:V1.35 本体:V	'0.00 UTM-1	1500 URYU (C) 2(104 2005年03月09	日 (水) 10:58:02

• "F.6 Save" selection allows setting value saving. Terminating the software or selecting another file without saving setting values will resume previous setting values.

Final Data Reception

JTM-18	500 - [最終	データ受信]								
íル名:a	a1	l	β備/ワーク名:Ⅰ	EST						
	<i>/</i> 0.≠−	~		-			201			
890	11禾仔	•	時間により更新	ा म	サイスにより	巴和	毎時 201	57		
10.	「カウント」	ワーク	緖付時間	パルス数	利定	日付	時刻	サイクルカウント	斎巷パルス教	
2 0	13	1	427	12	OK	2005.03.12	10:49:18	302	3714	
9	14	1	329	12	OK	2005.03.12	10:49:14	301	3702	
8	15	1	278	8	OK	2005.03.12	10:47:03	300	3690	
7	15	1	111	4	初期異常	2005.03.12	10:47:01	299	3682	
6	15	1	130	4	パルス下	2005.03.12	10:46:57	298	3678	
5	16	1	273	9	OK	2005.03.12	10:46:55	297	3674	
4	16	1	124	4	パルス下	2005.03.12	10:46:51	296	3665	
3	17	1	152	5	OK	2005.03.12	10:46:50	295	3661	
2	18	1	282	9	OK	2005.03.12	10:46:47	294	3656	
1	18	1	134	4	パルス下	2005.03.12	10:46:42	293	3647	
0	19	1	153	5	OK	2005.03.12	10:46:38	292	3643	
9	20	1	151	5	OK	2005.03.12	10:46:36	291	3638	
8	21	1	391	11	OK	2005.03.12	10:46:34	290	3633	
7	22	1	182	6	OK	2005.03.12	10:46:30	289	3622	
6	23	1	337	11	OK	2005.03.12	10:46:28	288	3616	
5	24	1	422	13	UK	2005.03.12	10:46:23	287	3605	
4	24	1	430	14	サイクル	2005.03.12	10:46:20	286	3592	
3	24		430	13	サイクル	2005.03.12	10:46:14	285	35/8	
	20		397	13		2005.03.12	10:46:03	284	3060	
\leq	29	- 1	420	19	<i>NN</i> XE	2005.03.12	46:00	283	3002	
\land							\sim			
						PC	s date and tim	e is shown as n	o date and	
De	ata No	receive	d			time.		+ ()		
Du		1000170	ũ			tim	e is available a	at Controller's	side.	
_										
	E.U E.S	1 E.U	F.S F	6 6.1	E.H. F					
			印刷 係	存	中止		x1)x1_1-			
5.00	2/						CON 3E + (#04 04	UTM-1500 UDVU	(c) 2004 2005/300 B10D /	110.51

Automatic Saving

· Checking "Auto Save" allows "data save place" and "file name" selection.

· Select between "Update on Time" and "Update on Size".

• Input time interval when "Update on Time" is selected. Date will be updated at input time intervals.

• Input size when "Update on Size" is selected. Data will be updated every time when the input size is attained. **Receiving Item Selection**

· Right-click your mouse to call up the pertaining menu, and check any item to display.

· Items without a checkmark will not appear but the corresponding data is in storage.



• To print out data received, select "F.5 Print".

- · To save data received, select "F.6 Save".

• To receive data, select "F.8 Receive". continuously when returned to Main menu without halting communication.

• To return to Main menu, select "F.12 Main Menu".

Pressure Value Display Screen

🔞 UTM-1500 - [圧力値表	示]		
ファイル名:aa1	設備/ワーク名:TEST		
			7
	圧力値[MPa]	電圧値[∀]	
	0.36	1.95	
			-
F.I F.2 F.3	F.判 F.5 F.5 セロ補正	F.1 F.8 F.9 E	F.III F.III איזאנא
	PC:V1.35 本体:V1.04	UTM-1500 URYU (C) 2004 2	2005年03月12日(土)11:05:16 🏑

- This screen displays pressure values in real time.
- Zero point correction will be effected when "F.6 Zero Correction" is selected. If correction is effected at the time of 0.02V, pressure value after this operation will always take 0.00 [Mpa] at 0.02V.

Waveform Data Reception



- Waveform data will be displayed with the time axis enlarged, when "F.1 Enlarge" is turned on.
- Waveform data will be displayed with the time axis reduced, when "F.2 Reduce" is turned on.
- Select "F.5 Print" to produce printouts of waveform data now on display.
- To save data received, select "F.6 Save". (CSV format)
- · Selecting "F.7 Import" will allow importing of previously received and saved data.
- To receive waveform data, select "F.8 Receive".
- $\mathbb{F}_{\mathbb{F}}^{\mathbb{H}}$ will turn to $\mathbb{F}_{\mathbb{F}}^{\mathbb{H}}$ during receiving conditions to halt data reception.

• Data reception is effective continuously when returned to Main menu without halting data reception. Preset Pressure Value Change

- When "F.9 Pressure Setting" is selected, setting values of Tightening Start Pressure and Shutoff (Hitting Start in the case of TM or Standard Tool) can be changed. "F.9 Setting Save" will turn on during changing.
- •Upon pressure changing, setting values are saved with "F.9 Setting Save" and setting values are transmitted to Controller with "F.4 Setting Send".
- · Returning to Menu without saving will resume PC's previous setting values.
- · When "F.10 Display Clear" is selected, waveform data display will be cleared.
- · To return to Main Menu, select "F.12 Main Menu".

Statistics

Statistical Chart

🛞 UTM-1500 - [統	H]				
ファイル名:aa1	設備	I/ワーク名:TEST			
検索条件 全て ▼					
WORK No.	データ数	締付時間平均	OK範囲	ď	3σ/平均
1	101	297.03	$250 \sim 350$	29.85	30.15
2	21	285.71	260~340	65.47	68.74
3	10	270.00	240~360	94.87	105.41
4	35	291.43	280~320	50.71	52.20
『 』』 『』 『 ガニコ デーカ	.a F. 4	F.5 F.5 5	P1	F.U. F.U. F.B.	
	· · · ·		PC:V1.35 本体:V1.04	UTM-1500 URYU (C) 2004	2005年03月12日 (土) 15:33:54 /

- Pick up data to display by selecting between All/OK/NOK in Search Criteria.
- Data will be saved in CSV format with "F.6 Save".

• Start Controller memory data reception using "F.8 Receive". Any data will be accepted regardless of Search Criteria selection.

• Memory data retained in Controller will be cleared when "F.9 Memory Clear" is selected.

• The maximum memory data for total works is 1,500.



- (1) When $\frac{\vec{r} \cdot \vec{r}}{\vec{r} \cdot \vec{r}}$ is selected, Statistical Data screen will appear.
- (2) To print out graphs, select \vec{F}_{i} .
- (3) To return to Statistical Chart, select $\begin{bmatrix} \mathbf{F}_{,\parallel} \\ & \text{select} \end{bmatrix}$.

9

Dense 7-2No. 5 1 5 1 4 1 3 1 2 1 11 1 10 1 9 1 8 1 7 1 6 1	· · · · · · · · · · · · · · · · · · ·	∧*&ス数 4 8 12 12 13 5 1 5 12 8 8	判定 初期異常 OK OK サイクル異常 OK 初期異常 OK OK	9{9630> 253 300 301 301 302 303 304 305 306 306	蕃获A*42数 3682 3630 3702 3714 3727 3732 9739
9-5No. 15 1 5 1 4 1 3 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 5 1 8 1 7 1 6 1	缔付時間 111 278 329 427 430 136 51 145 366 256 256 256 256 257 258	<mark>۸*62数</mark> 4 12 12 13 5 1 5 1 2 8 8 8	<u>判定</u> 初期異常 OK OK サイクル異常 OK 初期異常 OK	9{/>6/>293 293 300 301 302 303 304 305 306	蕃積 h*62数 3682 3690 3702 3714 3727 3732 9729
y~bNo. 5 1 5 1 4 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 8 1 7 1 6 1	祥村時間 111 278 329 427 430 136 51 145 366 256 256 256 256 256 256 257 258	∧*\$2数 4 8 12 13 5 1 5 12 8 8 8	刊定 初期異常 OK OK UK サイクル異常 OK 初期異常 OK	979689951 289 300 301 302 303 303 304 305 306	<u>蕃積</u>
5 1 5 1 4 1 3 1 2 1 12 1 1 1 1 1 9 1 8 1 7 1 6 1	111 278 329 427 430 136 51 145 366 256 256 256 256 267 258	4 8 12 12 13 5 1 5 1 5 12 8 8	初期異常 OK OK サイクル異常 OK 初期異常 OK OK	299 300 301 302 303 304 305 306	3682 3690 3702 3714 3727 3732 279
5 1 4 1 3 1 2 1 1 1 1 1 10 1 8 1 7 1 6 1	278 329 427 430 136 51 145 366 256 256 256 256 256	8 12 13 5 1 5 12 8 8	OK OK サイクル異常 OK 初期異常 OK	300 301 302 303 304 305 306	3690 3702 3714 3727 3732 2799
4 1 3 1 2 1 12 1 11 1 10 1 9 1 8 1 7 1 6 1	323 427 430 136 51 145 256 256 256 256 258	12 12 13 5 1 5 12 8 8	OK OK サイクル異常 OK 初期異常 OK OK	301 302 303 304 305 306	3702 3714 3727 3732 2799
3 1 2 1 1 1 1 1 0 1 9 1 7 1 6 1	427 430 136 51 45 366 256 256 256 258	12 13 5 1 5 12 8 8	OK サイクル異常 OK 初期異常 OK OK	302 303 304 305 306	3714 3727 3732 9799
1 1 1 1 1 1 0 1 8 1 7 1 6 1	430 136 51 145 366 256 256 267 258	13 5 1 5 12 8 8	サイクル異常 OK 初期異常 OK OK	303 304 305 306	3727 3732 9799
1 1 1 1 1 1 10 1 9 1 8 1 7 1 6 1	136 51 145 366 256 256 267 258	5 1 5 12 8 8	OK 初期異常 OK OK	304 305 306	3732
1 1 1 1 0 1 9 1 8 1 7 1 6 1	51 145 366 256 256 256 267 258	1 5 12 8 8	初期異常 OK OK	305	9799
1 1 0 1 9 1 8 1 7 1 6 1	145 366 256 256 267 258	5 12 8 8	OK	306	0100
0 1 9 1 8 1 7 1 6 1	366 256 256 267 258	12 8 8	OK		3738
9 1 8 1 7 1 6 1	256 256 267 258	8		307	3750
8 1 7 1 6 1	256 267 258	8	OK	308	3758
7 <u>1</u> 6 <u>1</u>	267	U	OK	309	3766
6 1	258	9	OK	310	3775
		8	OK	311	3783
5 1	269	9	OK	312	3792
4 1	227	8	OK	313	3800
3 1	267	9	OK	314	3809
2 1	258	9	OK	315	3818
1 1	249	8	OK	316	3826
25 1	584	20	OK	317	3846
4 1	410	14	OK	318	3860
3 1	428	15	OK	319	3875
2 1	395	14	OK	320	3889
1 1	397	15	OK	321	3904
20 1	281	9	OK	322	3913
9 1	255	9	OK	323	3922
8 1	248	9	OK	324	3931
7 1	243	8	OK	325	3939
6 1	251	9	OK	326	3948
5 1	203	7	OK	327	3955
4 1	202	7	OK	328	3962
3 1	281	10	OK	329	3972
2 1	204	7	OK	330	3979
1 1	225	7	 OK	331	3986
	204	7	0K	332	3993
0 1	229	8	OK	333	4001
5 4 3 2	1 1 1 1 1 1 1 1	1 203 1 202 1 281 1 204 1 225 1 204 1 229 1 229	1 203 7 1 202 7 1 281 10 1 284 7 1 225 7 1 225 7 1 224 7 1 225 8 1 229 8	1 208 7 0K 1 202 7 0K 1 281 10 0K 1 284 7 0K 1 225 7 0K 1 204 7 0K	1 203 7 0K 327 1 202 7 0K 328 1 201 10 0K 329 1 204 7 0K 330 1 204 7 0K 331 1 204 7 0K 332 1 204 7 0K 332 1 204 7 0K 333 1 204 7 0K 333

• Select among AII/1/2/3/4 to specify Work No. for data display.

👿 UTM-1500 - [統計]					
ファイル名:aa1					
検索条件					
No.					
1	2 9				
2	4 8				
3 49					
	0.0				

- (1) When $\begin{bmatrix} F_{1}\\ 757 \end{bmatrix}$ is selected, Statistical Graph screen will appear.
- (2) To print out statistical data, select [13].
- (3) To return to Statistical Chart, select $\begin{bmatrix} r_{,\parallel} \\ & &$

Input/Output Check



- (1) Wiring condition check will be carried out through Input Terminal Block status monitoring and Output Terminal Block forced output. Items now under Input ON or Output ON state are indicated in red and the ones now under OFF state are displayed in green.
- (2) Clicking an item now under ON state will turn it to OFF state, while clicking an item now under OFF state will turn it to ON state.
- (3) The item names correspondent to the names selected on Terminal Block Input/Output selection columns on Setting screen.

Tool Management

19 UTM-1500 - [ツール管理]	
ファイル名:aa1 設備/ワーク名:TEST	
<u>ツール名</u> ^{UL,T80}	
サイクルカウント[CYCLE COUNT] 現在値 2005/03/12/ 09:56	282
サイクルカウント出力1	50000
出力1表示メッセージ	CYC.COUNT1
サイクルカウント出力2	100000
出力2表示メッセージ	CYC.COUNT2
累積パルス数[PULSE NOS]	
現在値 2005/03/12/ 09:56	3537
累積バルス敷出力1	500000
出力1表示メッセージ	PULS. NOS. 1
累積バルス数出力2	1000000
出力2表示メッセージ	PULS.NOS.2
F.I F.Z F.I F.I F.S F.I F.I F.I X6 NN K7	F.日 F.J F.W F.W F.W 受信 累積/// メンニュー
	PC:V1.35 本体:V1.04 UTM-1500 URYU (C) 2004 2005年03月12日 (土) 14:34:27 //

Tool Name

Type in "Model" and "Number".

Allowable Range: 0~14 characters

Initial Value: 0 character

Cycle Count/Cumulative Pulse Number

When the tightening number and the pulse number attained the values preset on Cycle Count Output and Cumulative Pulse Number Output, the messages input on Display Message columns will be displayed on Controller Unit and then outputs will be produced from the terminal block. Cycle Count Output 1/2

Allowable Range: 0~999999	Initial Value: 0
Output 1/2 Display Message	
Allowable Range: 0~10 characters	Initial Value: "CYC. COUNT *" *: 1 & 2
Cumulative Pulse Number Output 1/2	
Allowable Range: 0~9999999 Pulse	Initial Value: 0 Pulse
Output 1/2 Display Message	
Allowable Range: 0~10 characters	Initial Value: "PULS. NOS * " * 1 & 2
$\boldsymbol{\cdot}$ Tool Name and Display Message can	be represented by numeric and alphabet characters, symbols
including !"#\$%&'()*+/<>=? and a spa	ce feed. (ASCII Code 10h~DFh)

"F.4 Send": Use this to send preset values.

"F.6 Save": Use this to save preset values and current values received (Cycle Count/Cumulative Pulse Number).

"F.8 Receive": Use this to receive preset values, Cycle Count and Cumulative Pulse Number.

Cycle Count and Cumulative Pulse Number will be displayed with reception time.

"F.10 Total Clear": Use this to clear Cycle Count and Cumulative Pulse Number.

When "Only PC Current Value" is selected upon displaying the message on the right, only current values at PC's side are cleared, while cumulative data at Controller's side will be cleared additionally when "PC/Controller" is selected.

ツール管理		
累積データをクリアしますか?		
© PC、コントローラ		
○ PCの現在値のみ		
ОК + +урМ		

Environment Setting

100 UTM-1500 - [環境設定]		<u>_ 0 ×</u>
ファイル名:aa1	設備/ワーク名:TEST	
通信ボート	сомі	
通信速度	38400	
自動受信		
○ しない		
○ 最終データ		
◎ 波形データ		
ファイル名	uryu 💌	
☑ 自動保存	○ 時間により更新 で 波形数により更新 ぷ	形 10 本
C:¥Wy Documents¥Wy	y eBooks¥DATAFILE00000.wdt	
,		
eı ea ea		
F.1 F.2 F.3	X/X==	
	PC:V1.35 本体:V1.04 UTM-1500 URYU (C) 2004	2005年03月12日(土)13:56:07 //

Communication Rate

• Select from among "AUTO/19200/38400/57600/ 115200 bps".

• In the case of AUTO setting, communication rate will automatically be recognized at the initial contact after setting.

通信ボート	COM1	•
通信速度	38400	•
	AUTO 9600 19200	
密信	38400 57600 115200	43

- Initial value for PC and Controller is both 38400bps.
- Note: Changing Controller communication rate once communication has been established with Controller at the initial contact under AUTO setting will cause a communication rate drift.

Reception Setting

(1) Automatic Reception

- When Auto Receive is checked, data receiving will be initiated on the Reception screen selected at the start of the software.
- Specify a file name by selecting one among registered file names in File Selection Window instead of directly entering on the window.
- (2) Automatic Save
- Select either "No" or a save timing option.
- When Update on Time is selected, put time interval to update on the column. When Update on Size is selected, updating will be effected every time when the preset size is attained.

◎ 時間により更新	○ サイズにより更新	毎時 00 分
	で サイズにより更新	10 KB

• Preset conditions are interconnected with Final Data Reception screen and Waveform Data Reception screen.



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