WK Data Logging Operations Manual



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Table of Contents

Table of (Content	ts	ii
Figure Ta	ble of C	Contents	iv
Table dire	ectory .		v
DISCLAIN	1ER		2
CHAPTE	R 1		4
SOFTWA	RE INT	FRODUCTION	4
1.1	Syst	tem Ports	4
1.2	Logi	in Screen	4
1.3	USB	3 Key	7
1.4	Syst	tem Settings	8
	1.4.1	Instrument Settings	9
	1.4.2	Language Setting	9
CHAPTE	R 2		10
DASHBO	ARD M	IODE	10
2.1	Inte	erface	10
2.2	Sett	ting The Measurement Conditions	12
2.3	Mea	asurement	13
2.4	Save	e The Measurement Results	13
2.5	Save	e The Setting Condition	14
2.6	Loa	d Settings Programming	14
2.7	Met	ter Viewing	14
2.8	Scar	n The QR Code	15
	2.8.1	Measurement Conditions	15
	2.8.2	Material Information	15
2.9	Met	ter Mode Setting	17
	2.9.1	Bias Source Setting	17
	2.9.2	Offset Value Compensation	
	2.9.3	Material Properties	19
	2.9.4	Material Information Setting	20
	2.9.5	Other settings	20
CHAPTE	R 3		22
ANALYSI	S MOD	DE	22
3.1	Inte	erface	22

3.2	Function Introduction24								
3.3		Setting The Measurement Conditions25							
3.4		Measurement							
3.5		View	Measurement Data	.26					
3.6		Save	The Measurement Results	.27					
	3.	6.1	Save The Picture	.27					
	3.	6.2	Store data	.27					
3.7		Save	The Setting Condition	. 28					
3.8		Load	Setting Conditions	. 28					
3.9		Reso	nant Mode	. 29					
3.10		Analy	/sis Mode Setting	. 29					
	3.	10.1	Bias Source Setting	.30					
	3.	10.2	Material Settings	.31					
	3.10.3 Device settings								

Figure Table of Contents

Figure 1. Connection method	
Figure 2. Login screen	4
Figure 3. A successful connection to the instrument	6
Figure 4. USB key does not boot	7
Figure 5. USB Key Boot	8
Figure 6. System settings	
Figure 7. Language settings	9
Figure 8. Dashboard Mode Interface	10
Figure 9. "Edit" interface of analysis mode	22
Figure 10. "Chart" interface of analysis mode	23
Figure 11. Analysis Mode System Setting	29
Figure 12. NI USB-TC01	32

Table Directory

Table 1. Login Screen Feature Introduction	5
Table 2. Dashboard Mode Feature	11
Table 3. Analysis Mode Features	25
Table 4. Thermocouple ypes.	32

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CHAPTER 1 SOFTWARE INTRODUCTION

1.1 System Ports

This software supports GPIB, USB, LAN ports, choose one to operate. An additional Ext. connection method is available to integrate external instruments.



(GPIB/USB/LAN/RS-232 by custom project)

Figure 1. Connection method

Figure 1 shows that the software provides three connection methods, choose the connection method to connect with the Wayne Kerr instrument.

1.2 Login Screen



Figure1. Login screen

Figure1shows the software login screen, and the software version number is shown in the upper left corner.



Table1. Login screen feature introduction

According to the user's existing connection method, you can select:

GPIB	An address number is required.
LAN	Enter IP, WK4X series, default IP address is 192.168.1.245.
USB	You do not need to enter an address number.

After selecting the connection method, click Here:

連接



Figure2. A successful connection to the instrument

Figure2shows the screen of successfully connecting to the instrument and displaying the ID of the instrument to enter the mode (Mode). This document lists the USB connection method to connect with WAYNE KERR 41100.

儀表	Enter gauge mode, refer to 0.						
分析	Enter the analysis mode, refer to 0.						
Cell	Custom Engineering:						
1. WK5400 se	eries, support multiple current modes.						
2. WK3260 se	eries, support transformer mode.						
To disconnect or reconnect, tap.							

1.3 USB Key

X You must insert a USB key before starting this software to activate the data saving function.

④ 儀表模式	- WK Data Loggi	ng IQC v1.0.7 alpha	a 32	L	_				- 0 ×
▶ 量測	🍃 重複量測	▲ 載入設定	設定量測條	件 🛄 儀表觀看					100 設定
		Programr	ning Proces	s		合格	不良	合計	良率
				1	间示版				
主設	第 外設備0	1 外設備02							
編號 最後	後結果 步驟	偏置時間(充電	,延遲)	量測條件	測項	下限	量測數值	上限	狀態
⊘ 校準	近期數據						Ø Model 4	1100 SN 0	FW 4.1.4

Figure3. USB key does not boot

Figure3 4, the word "Demo Version" appears to indicate that the USB key is not detected.

● 儀	表模式 -	WK Data I	Loggir	ng IQC_v1.0.7 al	pha 32						-		×
	・量測	▶ 重被	量測	載入設定	1 設定量測		a						🕼 設定
				Progran	nming Proc	cess			合格				2率
	主設備	外	設備01	● 外設備()2								
編號	最後編	課	步驟	偏置時間(充	電,延遲)	量測條件	測項	下限	量測數值	上限		狀態	_
0	交準	近期數據							🔗 Model	41100 SN	0	FW	4.1.4

Figure4. USB Key Boot

Figure4Demo Version" does not appear, indicating that the USB key has been started.

1.4 System Settings

条統設定				×
儀表 設定				>
外部觸發				
合格 / 不良 指示燈				
語言				
繁體中文			~	
	_			~
		取消	確定	

Figure5System settings

Figure 56, the system settings include: meter settings and language.

1.4.1 Instrument Settings

1. External triggering: This system integrates the ADU200 for external triggering and

does not require driver installation.



2. Pass/Defect LED: Additional 2021DLB purchase, no driver installation required.



1.4.2 Language Setting

語		
(Build)	繁體中文	~
E	inglish	
御	繁體中文	
徫	奇体中文	

Figure6. Language settings

Figure6As Figure 7 show, three languages are currently supported.

CHAPTER 2 DASHBOARD MODE

Function:

- 1. Single measurement.
- 2. Repeat measurements.
- 3. Save measurement data (USB key required).
- 4. Scan 2D barcode, new incremental measurement conditions, material information

Quick Setup:

Setting The Measurement Conditionsfirst (Chapter 2.22.2 and then measure MeasuSection 2.32.3

2.1 Interface

		1	2	3 4	5				6	7
	🕒 儀	菉模式 - WK D	ata Loggine	g IQC 1/1.0.7 alpha 32						- 0 ×
					量測條件 📮 儀表模				(⊗ #	次結束 🔞 設定
				Programming P	rocess		合格 5		合計 5	<u>良率</u> 100.00%
		主設備	外設備01	外設備02						
	<u>编號</u> 1	最後結果 PASS	步驟 S1	偏置時間 (充電 , 延遲 OFF) 量測條件 10kHz,1V	<u>測項</u>	下限	量測數值 5.41735kO	上限	
-		PASS	S1	OFF	10kHz, 1V	θs	-	-129.5249°	-	PASS
-	2	PASS	S1	OFF	10kHz, 1V	Zs	-	22.5578kΩ	-	PASS
-		PASS	S1	OFF	10kHz, 1V	θs	-	8.535°	-	PASS
	3	PASS	S1	OFF	10kHz, 1V	Zs	-	1.80508kΩ	-	PASS
-		PASS	S1	OFF	10kHz, 1V	θs	-	-110.3021°	-	PASS
-	4	PASS	S1	OFF	10kHz, 1V	Zs	-	1.59565kΩ	-	PASS
-		PASS	S1	OFF	10kHz, 1V	θs	-	-6.1914°	-	PASS
	5	PASS	S1	OFF	10kHz, 1V	Zs	-	11.6320kΩ	-	PASS
		PASS	S1	OFF	10kHz, 1V	θs	-	112.7598°	-	PASS
	0	交進 近期	數據	·		· · · ·		Ø Model 41	100 SN 0	FW 4.1.4
4	\neg									
	8									

Figure 7. Dashboard Mode Interface



 Table2. Dashboard Mode feature

Table2shows the functions of the meter mode, and the details are as follows.

2.2 Setting The Measurement Conditions



conditions. To modify the measurement conditions, first click the item you want to change,



Set upper and lower limits to determine whether the measurement is good or bad. When this function is set, it will be linked if there is a pass/ bad indicator light for connection. See Section 1.4.1Subsection II.

- After setting the measurement conditions, you can measure it, refer to Section 2.3
- Save the test conditions, refer to Section 2.5
- Load test conditions, refer to Section 2.6

無設定

2.3 Measurement

▶ 量測	take measurements
------	-------------------

9 113	:ख्रांद्र - N	NK Data Log	iging I	IQC v1.0.7 alpha 32			-				-	- 0	×	
⊳	量利	b 2923	1	🕈 #\.kkz 🔳 :	設定量剤供件	🛄 樂表標式					⊗ ±:	Rid # 10) 紀定	
				Programming	g Process						att 5	R4 100.0	0%	
-	主絵博	外設例	ŧ01 🗖	外設備02										
編就	最後的	胡果 步	累修	置時間(充電・3	送迎) 📱	測條件	測項	下限	量測數值	_	LAR	狀態		
1	PAS	s S	1	OFF	10	ikHz, 1V	Zs	-	5.41735kΩ		-	PASS		
	PAS	s S	1	OFF	10	ikHz, 1V	θ5	-	-129.5249°		-	PASS		
2	PAS	s S	1	OFF	10	ikHz, 1V	Z3	-	22.5578kΩ		-	PASS		-
	PAS	s S	1	OFF	10	ikHz, 1V	θs	-	8.535°		-	PASS		-
3	PAS	s S	1	OFF	10	ikHz, 1V	Zs	-	1.80508kΩ		-	PASS		-
	PAS	s s	1	OFF	10	ikHz, 1V	θs	-	-110.3021°		-	PASS		
4	PAS	s S	1	OFF	10	ikHz, 1V	Zs	-	1.59565kΩ		-	PASS		
	PAS	s S	1	OFF	10	ikHz, 1V	θ5		-6.1914°		-	PASS]
5	PAS	s S	1	OFF	10	ikHz, 1V	Z3	-	11.6320kΩ		-	PASS		-
	PAS	s s	1	OFF	10	ikHz, 1V	θs	-	112.7598°		-	PASS		-
ۍ ۲	*	近期教護	J						Ø Model 41	100	IN 0	PW	4.1.4	, which is the measurement res

- If you need to save the test results, refer to Section 2.4
- To change the format of the measured values, refer to Section 2.9 Subsection 5.

2.4 Save The Measurement Results

⊗ #	次結束 End the measurer	nent and output	(save) the n	neasurement	results.
	● 另存新欄	×			
	← → ~ ↑ ■ × 本機 × 画 × ◆ ひ	▶ 授辱 桌面			
	組合管理 ▼ 新増資料夾	≣ - ?			
	▲本機 ^ 名稱 ③ 3D 物件	修改日期			
	♪ 音樂 桌面				
	■ 圖片 圖 影片 ♥ Windows (C:) v <	×			
● 儲存檔案	福融会稿(<u>1</u>); 李傕擁是[[]: Log File (*, <sv)< th=""><th>~ ~</th><th></th><th></th><th></th></sv)<>	~ ~			
	▲ 隱藏資料夾	存檔(<u>S</u>) 取消	Select the s	save path, e	nter the

file name, and archive. The output file format is CSV.

2.5 Save The Setting Condition

	◎ 另存新措	
	← → ∨ ↑ ■ > 本機 > 桌面 > ∨ ひ ዖ 痰	母 柴西
	組合管理 ▼ 新博賞科交	E • 🕜
	◎ 本機 ③ 3D 物件	修改日期
	◆ 下数 Ⅲ 文件 ▶ 音频	
	■ 貞斎 ● 目片 ■ 影片 &_ Windows (C) → <	
	禮樂名稱(N):	
	存橫ı乘型([]): Test Program (*.wkda)	~
Save the setting conditions,	▲ 陽顧貿利交 存櫃	(2) 取消

select the save path, enter the file name, archive. The output file format is wkda.

2.6 Load Settings Programming

▲ 儲存設定

▲ 載入設定	Loading	settings	programmatically,	select	the	file
● 開設		×				
← → ∨ ↑ 🔜 > 本機 > 痕面 >	∨ ひ 2 提琴	桌面				
組合管理▼ 新増資料夾) · · · · · · · · · · · · · · · · · · ·				
● 本職 ● 30 物件 ● 下載 ● 文件 ● 音樂 ■ 展用 ■ 影片 Windows (C3) ↓ EENOVO (D2) ● share (\192.168.10.2 ∨ <		修改日期 ▲				
欄菜名稱(<u>1</u>):	✓ Test Prog 開啟(⊆	ram (*.wkda) ~ 2) 取消	with the extension wk	da, and l	oad.	

2.7 Meter Viewing



This function observes the change in the measured object (DUT)

measurement relative to the real-time measurement on the meter.

2.8 Scan The QR Code

The software supports scanning the QR code and entering the measurement conditions or material information. For barcode setting rules, please refer to the manual.

2.8.1 Measurement Conditions

X You need to set the interface in this condition to scan the input measurement conditions.







2.8.2 Material Information

X You need to be in the instrument mode interface to scan and input material information.

If there is material information, it will be recorded in the measurement results when it is saved.

<mark>)</mark>	表模式 - WK[Data Loggi	ing IQC v1.0.7 alpi	na 32						- 0	×
	• 量測 ┣	重被量测	▲ 載入設定	設定量測(Ĩ					② 設定
			Program	ming Proce	ess			格	合計		2#
	主設備	外設備0	01 外設備02	2							
編號	最後結果	步驟	偏置時間(充す	電,延遲)	量測條件	測項	下限	量測數值	上限	狀態	
0 1	交進 近期	敷援						Model	41100 SN	0] FW	4.1.4

After scanning the QR code, the display of data will change from "Programming Process" to "Material Information".

<mark>)</mark>	表模式 - WKI	Data Loggi	ng IQC v1.0.7	alpha 32						- 1	□ ×
►	11111 11111 11111111111111111111111111	重複量測	① 載入設	定 📰 設定量測		t					🔞 設定
			Progra	Imming Proc	ess			格不良			良率
編號	主設備 最後結果	外設備	外設(偏置時間(^{第02} 充電,延遲)	量測條件	測項	下限	量測數值	上限	狀態	
		31	#名稿	零件編號	零件批次號		零件流水號				
				20220929	PR-2022-00		SER-1001				
() *	交進 近期	月數據		_				Ø Model 41	100 SN (V 4.1.4

Manual material information is provided as described in Section 2.9.4

2.9 Meter Mode Setting



Settings: bias source, deviation compensation, material properties,

material information and other settings. The above setting function will have different

settings according to different instruments, and the details are as follows:

🕒 設定		×
偏流源	WK Bias	
誤差值補償		
材料		
鍵入	□内部	
其他	偏流時間控制	
	充電: s 延遲: s	s
	偏流選項	
	Voltage	
	■ 外部	
	偏流時間控制	
	充電: s 延遲: s	5
	偏流選項	
	NORM	
		離開

2.9.1 Bias Source Setting

Supports WK6500 series, WK3260 series and WK5400 series. Additional purchase of biased sources is required.



The initial setting of WK Bias is turned off to prevent burst current when the function is turned on.

Off: Turn off DC Bias.

Internal: Use internal bias.

External: To use external bias current, it needs to be connected to the WK instrument to enable the function of the bias source. Such as WK6565, WK3265.

2.9.2 Offset Value Compensation

Only support WK3260 + WK3265 (need to start), when the measured value has an error value, according to the input value to add or subtract and provide six sets of setting columns, only one group can be used at a time.

	i	誤差值補償	Ś.
• 01.	L	Q	R
	0.000H	0.000Q	0.000Ω

Add or subtract according to the value entered by the user.

Example 1Q is set to -0.1Q, the equivalent value is 10.1Q, and the measurement result will be displayed as 10Q.

2.9.3 Material Properties

Only WK6500 is supported, testing the dielectric constant and permeability of the material.

■啟用						
介電常數測試						
☑ 接觸	■ 無接觸					
電極直徑 'D' 38.0000mm 材料厚度 'Tm' 1.00000mm	電極間距 'Tg' 2.10000mm 材料厚度 'Tm' 2.00000mm 量測 'Cg' 參考值 歸零 No Data					
磁得名	率測試					
磁場2 線圈匝數 'N' 平均線徑長度 'l' 磁環截面面積 'A'	赵) 就 SN 60.0000mm 50.0000mm2					
磁場2 線圈匝數 'N' 平均線徑長度 'I' 磁環截面面積 'A' 量測 'Lw/F	率測試 5N 60.0000mm 50.0000mm2 Rw' 參考值					

2.9.4 Material Information Setting

Manually fill in the information, and the measurement results will be recorded when they are saved.

零件名稱	
零件編號	
零件批次號	
零件流水號	
操作人員	After entering data, all field information is
synchronized with it.	零件名稱 零件編號 零件批次號 零件流水號 IDN100uF 20220929 PR-2022-001 SER-1001

2.9.5 Other settings

1. The sequence number or name of the measurement result.

自定序列號		
起始編號:	1	
內容: T		
	T1	

Example: Content is T; The starting number is 1, and the measurement result is

numbered T1.

編號	最後結果	步驟	偏置時間(充電,延遲)
T1	PASS	S1	OFF
	PASS	S1	OFF

2. Display a prompt window when the measurement result fail.

提示視窗	
□ 提示!當不良訊號出現時	۰

Tick to launch this feature.

3. Automatic measurement

自動量測				
□ 自動偵測 DUT				
延遲: 0 ▲ 微秒				
門檻值: 更高≦1KΩ >				

Tick to launch this feature; If the measured value meets the threshold value, it is

measured.

4. The format in which the data is saved.

儲存資料格式 ————	
☑ 科學符號表示 □ 儀器符號表示	

Scientific Symbols: 10E3; Instrument symbol: 1000

CHAPTER 3 ANALYSIS MODE

Support :

- 1. Multiple sets of scan conditions.
- 2. The way to draw a picture is to present the measured values.
- 3. Frequency, voltage, current, time, and temperature sweep point (Sweep).
- 4. Compare differences under the same measurement conditions.

Quick Setup :

Set the measurement conditions first (Chapter 3.3) Setting The Measurement

Conditions3.3 3.4).

3.1 Interface



Figure 9. "Edit" Interface of Analysis Mode



Figure8"Chart" interface of analysis mode

FigureFigure 10 show the analysis mode interface Figure8K Data Logging, the information in the upper left corner is the version number of the analysis mode, and the

information in the upper right corner is the instrument model and the interface type connected to the instrument.

3.2 Function Introduction





Table3shows the functions of the meter mode, as follows.

3.3 Setting The Measurement Conditions



including measurement settings and scan settings.

3.4 Measurement

	▶量測 After measurement, the p	points are connected with lines to form,
Manalysis Mode - v1.7.30	- □ ×	
Default ● Presentry ● Default ● Presentry ● Presentry ● Default ● <tdd< th=""><th>165.000 165.000 774.620k 113.470 669.240k 61.938 363.830k 10.4007 458.470k -41.1204 363.830k -41.1204 459.470k -92.6305 142.339k -44.181 10.000k 200.000k 004.000k 02.000k 100.1037 142.339k -00.000k 004.000k 02.000k 1.0000k 10.000k 200.000k 004.000k 002.000k 1.0000k 10.000k 200.000k 004.000k 002.000k 1.0000k 10.000k 200.000k 006.000k 002.000k 1.0000k 10.000k 200.000k 006.000k 007.000k 1.0000k 10.000k 200.000k 006.000k 007.000k 1.0000k 10.000k 200.000k 006.000k 007.000k 1.0000k 008.000k 10.000k 200.000k 006.000k 007.000k 1.0000k 008.000k 10.000k 200.000k 006.000k 007.000k 1.0000k 008.000k 10.000k 006.000k</th><th>Default ★ 型號: 41100 測項1: Z 測項2: A #聯 等效電路: 串聯 等效電路: 串聯 電平: 1.0 V Freq.: - 偏流: - Frequency 10.00kHz ~ 1.00MHz</th></tdd<>	165.000 165.000 774.620k 113.470 669.240k 61.938 363.830k 10.4007 458.470k -41.1204 363.830k -41.1204 459.470k -92.6305 142.339k -44.181 10.000k 200.000k 004.000k 02.000k 100.1037 142.339k -00.000k 004.000k 02.000k 1.0000k 10.000k 200.000k 004.000k 002.000k 1.0000k 10.000k 200.000k 004.000k 002.000k 1.0000k 10.000k 200.000k 006.000k 002.000k 1.0000k 10.000k 200.000k 006.000k 007.000k 1.0000k 10.000k 200.000k 006.000k 007.000k 1.0000k 10.000k 200.000k 006.000k 007.000k 1.0000k 008.000k 10.000k 200.000k 006.000k 007.000k 1.0000k 008.000k 10.000k 200.000k 006.000k 007.000k 1.0000k 008.000k 10.000k 006.000k	Default ★ 型號: 41100 測項1: Z 測項2: A #聯 等效電路: 串聯 等效電路: 串聯 電平: 1.0 V Freq.: - 偏流: - Frequency 10.00kHz ~ 1.00MHz

view the curve of this pen, the background is yellow to represent the data that has been selected so far.

3.5 View Measurement Data

w數據表 To view the data of each measurement, click the field on the left to view

1 10.0000k 24.5	A(-)	
	450k 46.6338	
2 120.000k 49.9	390k -49.7305	
3 230.000k 23.0	823k 113.869	
4 340.000k 153.	281k -17.2146	
5 450.000k 86.9	360k 116.346	
6 560.000k 68.6	628k 176.566	
7 670.000k 139.	441k -73.4557	
8 780.000k 183.	222k 30.4208	
9 890.000k 124.	626k 162.395	
10 1.00000M 207.	399k -77.6391	

the measurement data of this transaction.

To save data, refer to Section 3.6.2

3.6 Save The Measurement Results

3.6.1 Save The Picture

		×
	← → ∨ ↑ 🗟 > 本機 > 文件 > 🗸 V	搜尋 文件
	组合管理▼ 新増資料夾)= • (?)
	● 太微 ● 3D 物件 ● 下載 ● 文件 → 容焼 ■ 桌面 ■ 周片 ■ 影片 そ、Windows (C)	日期 預型
	.v <	>
「 儲存圖片	檀築名稱(<u>(</u>)): ┃ 存櫓頭型(<u>1</u>): PNG (*.png)	~ ~
Save the graph,	▲ 隱藏資料夾	存備(<u>5)</u> 取消

select the save path, enter the file name, archive; The output file format is png.

3.6.2 Store data

↓ 儲存量測結果	То	save	data,	you	need	to	create	a	folder	first,
瀏覽資料夾	:	×								
 ● 魚面 > ○ OneDrive - Personal > ● 本機 > ● 素機 > ● 課題 > ● 課題 > ○ 追別台 ● 資源回收商 										
速江和I具和4代[10] 電走	MX //H	sele	ct the c	created	l foldei	; an	d archiv	e; 7	The outp	ut file

format is CSV.

3.7 Save The Setting Condition

	藏 另存新编	×
	← → ∨ ↑ □ × ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★	
	· 相合管理 • 新增資料夾	⊯ • ()
	 支援 金属 3 3D 物件 	類型
	♣ 下廠	
	 2 文件 b 本場 	
	- AII	
	■ #K	
	() () () () () () () () () () () () () (
	Windows (C)	
	LENOVO (U)	>
	楊密名稱(10):	~
↓ 【 → → → → → → → → → → → → → → → → → →	存相類型(D: WKConfigure (*.wk)	×
Save the setting conditions,	∧ 場塞資料共 存積(5)	取消

select the save path, enter the file name, archive; The output file format is wk.

3.8 Load Setting Conditions



3.9 Resonant Mode



, only support WK6500 series and WK6400 series to select

Hz fs Hz fp

0.00000

Hz fm Hz fn

resonance type, given the sweep frequency range; After measurement, the resonant

fr fa

0.000

0.0000

Ω H F

離開

2 〇 並聯 () 壓電/晶體

1.00kHz 停止: 10.00MHz

СО F Qm Keff 2 Zmin: Ω 2 Tmin: Ω 0 min: -0 min: -0 min: -

(displayed

frequency and graph

in Log) will be displayed.

3.10 Analysis Mode Setting

Settings: Partial source, material and device. The above setting function will have different settings according to different instruments, and the details are as follows:



Figure 11. Analysis Mode System Settings

3.10.1 Bias Source Setting

1. WK bias source

Only supports WK 6500 series, WK3260 series and WK 5400 series. An additional bias current source is required.

WK偏流源
開/關
☑ 關
□ 單機(內部)
□外加(外部)

The "WK bias source" is initially set to off to prevent burst current when the function is turned on.

Off: Turn off DC Bias.

Stand-alone (Internal): Uses internal bias.

External: To use an external bias current, it needs to be connected to the WK instrument to enable the function of the bias source. Such as WK6565, WK3265.

2. Third-party bias source

Only the EA system and ITECH systems are integrated and an additional bias sources are required. If the WK bias source is supported, the third-party bias source cannot be turned on.

第三方偏壓源					
EA Elektro-Automatik					
[啟用]]					
開					
OVP - V					
型號 OCP - A					
OPP - W					
※只支援偏壓源掃描					

OVP: Over set voltage protection.

OCP: Over set current protection.

OPP: Over set wattage protection.

When measuring:

Condition 1. The set voltage value exceeds the OVP

Condition 2. The set current value exceeds the OCP

Condition 3. The set wattage value exceeds the OPP

When either condition is met, the measurement stops.

3.10.2 Material Settings

Only WK6500 is supported, testing the dielectric constant and permeability of the material. Tick off with this feature.



3.10.3 Device settings

It is necessary to measure the temperature of the measured object as the current changes, and an additional NI USB-TC01 device needs to be purchased.



Figure9. NI USB-TC01

Thermocouple type	Wire(+)	Pipe(-)	
J	Iron	Nickel-copper alloy	
К	Nichrome	Nichrome	
Ν	Nichrome silicon alloy	Nickel-silicon-	
		magnesium alloy	
R	White gold 13% rhodium	platinum	
S	White gold 10% rhodium	platinum	
т	Copper	Nickel-copper alloy	
В	White gold 30% rhodium	White gold 6% rhodium	
E	Nichrome	Nickel-copper alloy	

Table4. Thermocouple types.