SPARK-E-MATE BLUETOOTH® LOGGING



PRODUCT:

Spark-e-mate 493BTL & 493BTLi (DRWG PC-5157-2)

PCs & Laptops, Android Devices, iOS Devices

MOBILE DEVICES:

CUSTOMER:

Schneider Electric

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1. BLUETOOTH® LOGGING OPTION 493BTL

(AS/NZS 3000:2007 Clause 8.4)

1.1 Introduction

Spark-e-mate 493BTL (for Android and PC) and 493BTLi (for iPhone) units can log test results on a Bluetooth enabled PC / laptop, Android device or Apple iPhone using the free Spark-e-log App. Test reports for each installation can be printed and stored as a Verification Record. Existing 493 units can be retrofitted with the 493BTL or 493BTLi module at a nominal charge.

Only Spark-e-mates that carry one of these optional symbols are Bluetooth enabled.



Android devices and PCs use Bluetooth V2.0 and iPhone 4S and newer use Bluetooth Smart V4.0

In this handbook T14221 we cover Logging to PCs, Android devices and iPhones.







2. BLUETOOTH® LOGGING TO A PC



For logging test results to a PC or Laptop, your Spark-e-mate must have the Bluetooth V2.0 module fitted, indicated by this symbol

2.1 Spark-e-log PC Client Software (493BTL)

First you'll need to download the Spark-e-mate Logging System for PC software (freeware) from:

www.sparkemate.com/software/log.zip

The software is in a ZIP file which needs to be extracted to your hard drive. The installation instructions are contained in the READ_ME.txt file.

Once properly installed, clicking on the Spark-e-log Bluetooth Icon on your desktop will bring up this splash screen:



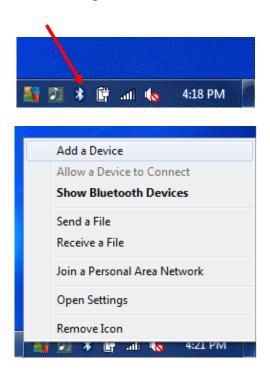
Then the main Logging System window appears:

ob Description	Date / Time	Test	Measurement	Pass	Notes
emonstration Job	12/05/2011 1:37 PM	Voltage & Frequency	240V 50Hz	I 033	
	12/05/2011 1:38 PM	Earth Continuity (powered)	0.43 Ohms		
	12/05/2011 1:38 PM	Fault Loop (powered)	0.95 Ohms		
	12/05/2011 1:39 PM	Polarity	ок		
	12/05/2011 1:39 PM	Circuit Connections	ОК		
	12/05/2011 1:40 PM	RCD Test	27ms at 30mA (180 degrees)		
	12/04/2012 2:20 PM	Fault Loop (unpowered)	>20.00 Ohms		Open circuit test
	12/04/2012 3:28 PM	Insulation Resistance	0.20 M.Ohms at 250V (A-N)		MOV in RCBO

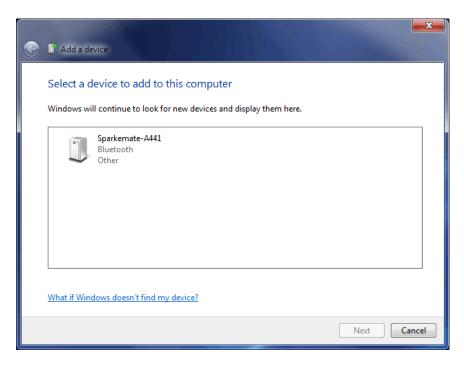
You must now CLOSE Spark-e-log and go to the next step of pairing.

2.2 Pairing your Spark-e-mate with your Computer's Bluetooth

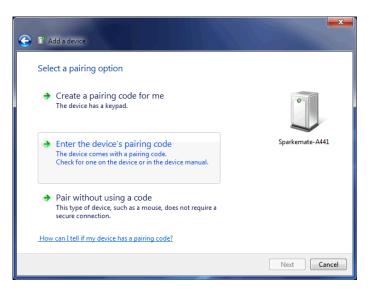
- 1. Turn on *Spark-e-mate* by pressing its ON/RESET button and make sure the backlight is on.
- 2. On your Laptop, right click on the Bluetooth icon and select "Add a Device" from the popup menu while *Spark-e-mate's* backlight is still on.



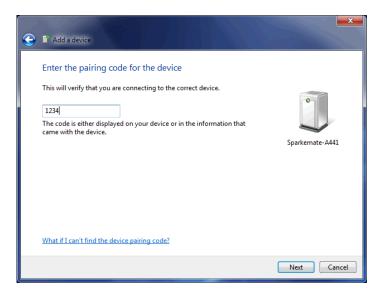
3. Wait until your Spark-e-mate shows up in your "Add a Device" window:



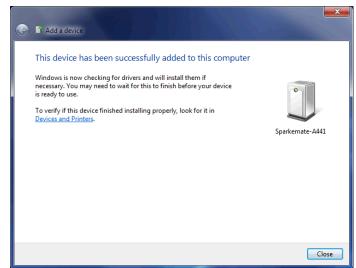
4. Select Spark-e-mate from the list and click on "Next"



5. Select "Enter the device's pairing code" and click on "Next".



6. The default pairing code is 1234.



7. Click on "Close".

8. The last step in Pairing is to take note of which COM port has been assigned to your *Spark-e-mate*. Right click once more on the Bluetooth toolbar icon:



9. Select "Show Bluetooth Devices" from the pop-up menu:

		Add a Device	
		Allow a Device to Connect	
		Show Bluetooth Devices	
		Send a File	
		Receive a File	
		Join a Personal Area Network	
		Open Settings	
		Remove Icon	
		🗾 🥇 🔄 📶 🍢 4:33 PM	
A A - FA	Devices and Printers	Bluetooth Devices	es and Printers
Add a device		Remove device	E • @
 Devices (1) 			
Sparkemat	Create shortcut Troubleshoot Remove device Properties		
	Troubleshoot Remove device		

10. Right click on the Spark-e-mate icon and choose "Properties".

11. Choose the "Hardware" Tab ("Services" Tab in VISTA) from the Properties window and <u>take note of the assigned COM port.</u> In the example below COM 7 has been assigned but the COM port may be <u>different for your computer</u>.

Sparkemate-A441 Properties					
General Hardware Services Bluetooth					
Sparkemate-A441					
Device Functions:					
Name	Туре				
Standard Serial over Bluetooth link (COM7)	Ports (COM				
Device Function Summary					
Manufacturer: Microsoft					
Location: on Bluetooth Device (RFCOMM Pro	tocol TDI)				
Device status: This device is working properly.	Properties				
ОК Саг	Apply				

12. Click "OK". Spark-e-mate is now paired to your computer and this process should NOT need to be repeated.

2.3 Establishing the Bluetooth wireless Connection

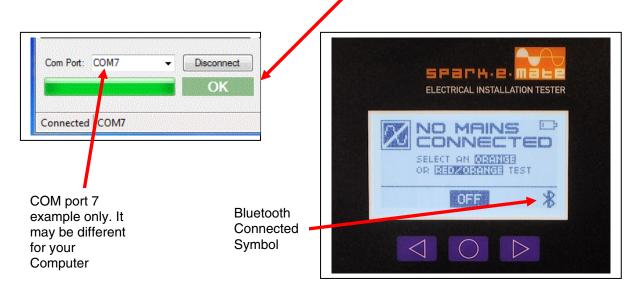
1 Go to your laptop, make sure your Laptop <u>Bluetooth is turned on</u> and click on the Spark-e-log shortcut on your desktop to start the Spark-e-log Logging System.



Then the main Logging System window appears:

ob Description	Date / Time	Test	Measurement	Notes: Pass	Notes	
emonstration Job	12/05/2011 1:37 PM	Voltage & Frequency	240V 50Hz		Notes	1
	12/05/2011 1:38 PM	Earth Continuity (powered)	0.43 Ohms			1
	12/05/2011 1:38 PM	Fault Loop (powered)	0.95 Ohms			
	12/05/2011 1:39 PM	Polarity	ок	V		
	12/05/2011 1:39 PM	Circuit Connections	ок			
	12/05/2011 1:40 PM	RCD Test	27ms at 30mA (180 degrees)	V		
	12/04/2012 2:20 PM	Fault Loop (unpowered)	>20.00 Ohms		Open circuit test	
	12/04/2012 3:28 PM	Insulation Resistance	0.20 M.Ohms at 250V (A-N)		MOV in RCBO	

- 2 Turn on *Spark-e-mate* by pressing its ON/RESET button.
- 3 Choose the correct COM port and click the Connect button while Spark-e-mate's backlight is on.
- 4 Within 30 seconds the CONNECTED Icon should flash green and the *Spark-e-mate* Bluetooth Connected symbol appears.
- 5 You are connected ready to log results.



2.4 Creating New Jobs

The first thing to do is to create a new job by clicking on the "Jobs" tab. You can then name and number it, and pin notes to each test. Jobs and test results are automatically saved until you manually delete them using the "Delete Job" tab.

2.5 Logging your Test Results

Whenever the LOG symbol appears, you can press the LOG button to send the displayed test result to your computer. Both Spark-e-mate and your computer will beep to indicate successful data transfer. The test result appears and is saved in the Logging System window.



2.6 Printing your Test Results

Bring up the required Job and click on the Spark-e-log "Jobs" then "Print Test Report" to print the Test Report:

ELECTRICAL INST DATE OF ENERGIS Testing Organisation &		FICATION F	RECORD	INSTALL Demons	ATION: tration Job		
Test Equipment	Model Number	Seria	l Number	Manufactu	rer	Date of Purchase or Las	st Calibration
Spark-e-mate Electrical Installation Tester	Clipsal Cat . No. 4			Design 200		12/04/2012	
Test Date and Time	Test		Measurement		Notes	ŀ	Result Refer to AS/NZS 3000 Sectio
12/05/2011 1:37:46PM	Voltage & Frequency		240V 50Hz				Pass
12/05/2011 1:38:23PM	Earth Continuity (powe	red)	0.43 Ohms				Pass
12/05/2011 1:38:55PM	Fault Loop (powered)		0.95 Ohms				Pass
12/05/2011 1:39:04PM	Polarity		OK			Pass	
12/05/2011 1:39:12PM	Circuit Connections		OK				Pass
12/05/2011 1:40:29PM	RCD Test		27ms at 30mA (18	0 degrees)			Pass
12/04/2012 2:20:13PM	Fault Loop (unpowered	i)	>20.00 Ohms		Open circuit te	est	Fail
12/04/2012 3:28:28PM Other Comments	Insulation Resistance		0.20 M.Ohms at 2	50V (A-N)	MOV in RCBC)	Fail
Tested by		Signature				Dated /	1

There are a few blank fields that you will need to complete by hand.

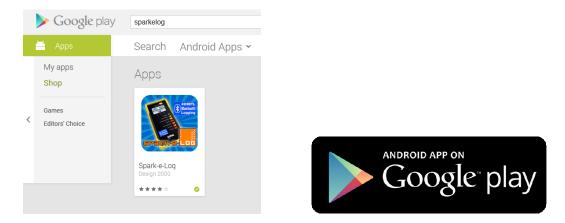
3. BLUETOOTH® LOGGING TO AN ANDROID DEVICE



For logging test results to an Android device, your Spark-e-mate must have the Bluetooth V2.0 module fitted, indicated by this symbol

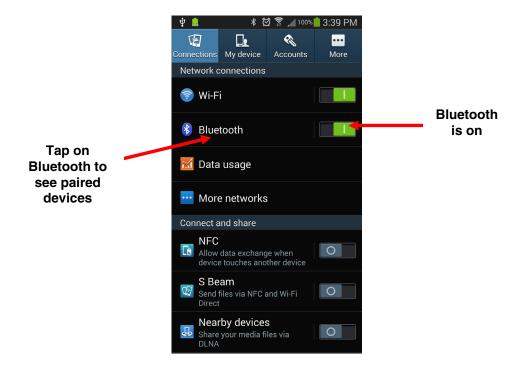
3.1 Spark-e-log Android App (493BTL)

First you'll need to install the free Spark-e-mate Logging System App from the Google Play store by searching for "sparkemate" or "sparkelog":



3.2 Pairing your Spark-e-mate with your Android Device

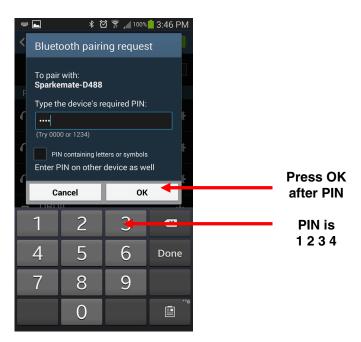
1. Go into the settings screen on your Android device and make sure Bluetooth is turned on (the sliding switch should be green):



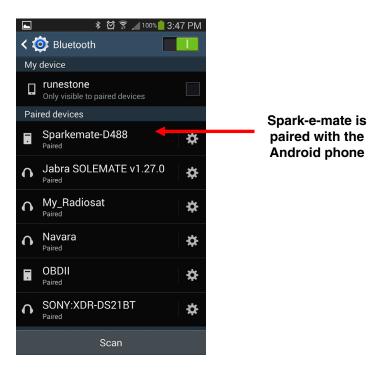
2. Tap on the word "Bluetooth" in the above settings menu and you will see all of your currently paired Bluetooth devices (next page):

	* 🔯 穿 🔎 100%	3:46 PM
< 🕻	💇 Bluetooth	
	runestone Only visible to paired devices	
Pai	red devices	
0	Jabra SOLEMATE v1.27.0 Paired	⁰ 🌣
0	My_Radiosat	*
0	Navara Paired	₽
•	OBDII Paired	\$
0	SONY:XDR-DS21BT Paired	\$
Ava	ailable devices	
·	Sparkemate-D488	
	Scan	

- 3. Turn on Spark-e-mate then press "Scan" in the above screen to find your Spark-emate and list it under "Available devices".
- 4. Press the Spark-e-mate entry in "Available devices" and the pairing process will begin. When you are asked to enter a pairing PIN code, enter "1234" and click "OK":



5. Your Spark-e-mate will then be shown in the list of paired devices:

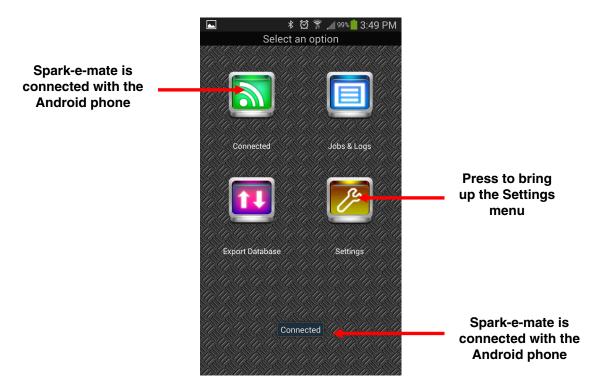


3.3 Establishing a Bluetooth Connection

1. Find the Spark-e-log Tile within your installed Apps and press it:

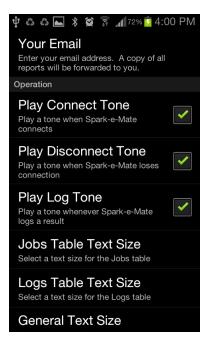


2. Spark-e-log will then start. Make sure your Spark-e-mate is turned on and it will automatically connect within a few seconds (the status icon will turn green and display "Connected"):



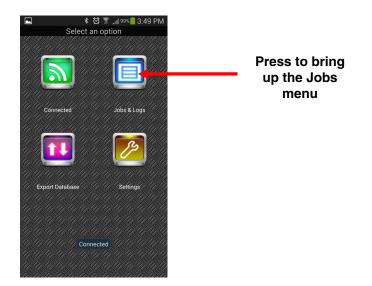
3.4 Settings Menu

Press the "Settings" button to enter a few basic things such as your email address, Company details, Spark-e-mate serial number and last calibration/purchase date:



3.5 Opening Existing Jobs or Creating New Jobs

1. Go back to the main menu and press the "Jobs & Logs" button



2. Tapping on a job entry will bring up all tests logged under that job. To add a new job, edit an existing job or produce a job test report, <u>push and hold</u> the required job entry:

	යා යි 📠 Sparkelog	* \$	🔉 🗊 📶 72% 🗖 3:54 PM
Push and hold a job entry to display the	Job Description Demo Job	Email mike@design2000.com. au	Notes Demo Only
pop-up menu	New Edit	(E) Report	
		b.	

3. To edit the job tap on "Edit" in the pop-up menu:

- a a	*	*	Ì	H‡	1 72%	3:5	55 PM
Sparkel			_	_		_	
Job De				E	dit Jol	С	
Demo J	Company Name					_	
	Demo Job						
	Email Address						
	mike@design2000.com.au						
	Notes						
	Demo Only	_	_	_			

3. To create a new job tap on "New" in the pop-up menu:



4. You will then be prompted to fill out the new job details.

∲ ≊	<u></u>	100%	* Ø	(lit	100% 1:	38 PM
Job D						
Demc		0			New Job	ew 'ress
		Company Name				to
		Company Na	ame			delete
		Email Address				e a
		Email Addre	SS			
		Notes				
		Notes				
			ОК			
	Th	e	I		Thanks	\checkmark
1	2	2 3 4	5	6	789	0
q	V	ver	t	y	u i c	o p
ē	à	s d f	g	ŀ	n j k	1
		ZXC	V	k	o n m	×
Syn	n	e	nglish(UK)	•	Next

Press OK when you have filled out the new job details

3.6 Logging your Test Results

Tapping on a job entry brings up a list of all tests logged under that job. If no tests have yet been logged for that job, such as when a new job has just been created, the log screen will be empty. You must be in the log screen before you start logging results from your Spark-e-mate so that log entries are added under the correct job.

To edit or delete a logged test, <u>push and hold</u> a log entry and choose the required action from the pop-up menu:



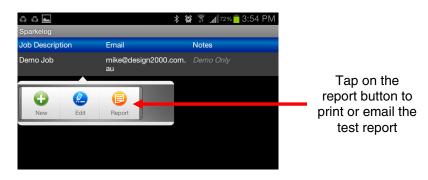
You can tell that Spark-e-mate is connected to your Android device and is ready to log when you see the Bluetooth symbol in the bottom-right corner of the Spark-e-mate display.

Whenever the LOG button appears on the Spark-e-mate display, you can press the LOG button to send the displayed test result to your Android device and store it against the currently selected job. Both Spark-e-mate and your Android device will beep to indicate successful data transfer. The test result appears and is saved in the Spark-e-log System.



3.7 Printing your Test Results

1. <u>Push and hold</u> the required job entry to bring up the "Report" button.



2. You are then prompted to print or email the report. Reports are generated in PDF format and are stored on your Android device in the "Sparkelog" directory (you should back-up and delete these reports occasionally to free up storage space).

Energisation or Verification of an Installation (AS/NZS 3000:2007 Clause 8.4) www.design2000.com.au Date of energisation and original verification details are to be recorded and available on site in this accessible record. This also facilitates the process of re-verification at a later date. 9-11 Rose St., Upper Ferntree Gully, Victoria 3156 ELECTRICAL INSTALLATION & VERIFICATION RECORD INSTALLATION: Ph (03) 9758 5933 Fax (03) 9758 5560 DATE OF ENERGISATION: Demonstration Job 1 1 Testing Organisation Design 2000 & Department Test Equipment Model Number Serial Number Manufacturer Date of Purchase or Last Calibration Clipsal Cat. No. 493BTL A012345 Design 2000 Ptv Ltd 20/04/2013 Spark-e-mate Electrical Installation Tester Test Date and Time Test Measurement Notes Result Demonstration test result. As you log results with Spark-e-mate they will appear on this screen. Press and hold a result to edit or delete. Tap the 'Pass? column to pass a result. Fling the screen to the right ---> to go back to jobs Pass 01/01/2012 00:00:00AM Circuit Connections ОК back to jobs. 17/05/2013 04:10:03PM Unpowered Fault Loop >20.00 Ohms Fail 22/05/2013 12:58:18PM Voltage & Frequency 246V 50Hz Pass 22/05/2013 12:58:35PM Polarity OK Pass 22/05/2013 12:58:58PM RCD Test 13ms at 30mA (90 degrees) Pass General Comments: Tap a job to view test results. Press and hold a job to add, edit and delete jobs or produce a test report. Tested by: Dated: 22/05/2013 Signature: FILE: 2013 05 22 13 20 32 sparkelog.pdf IMPORTANT: REFER TO AS/NZS 3000 SECTION 8 WHEN INTE ING ANY RESUL Û 🖬 🍽 🛎 1:21 ᄛ

Example report output:

You can customize the graphic logo shown in the report by placing a JPG-format file named "logo.jpg" (without quotes) in the "Sparkelog" directory on your Android device. The image should be exactly 600 pixels wide by 300 pixels high.

4. BLUETOOTH® LOGGING TO AN IOS DEVICE



For logging test results to an Apple iOS device, your Spark-e-mate must have the Bluetooth Smart module fitted, indicated by this symbol

4.1 Spark-e-log iPhone App (493BTLi)

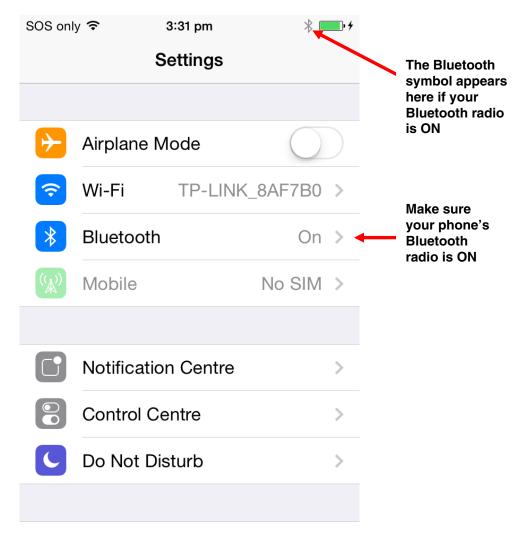
First you'll need to install the free Spark-e-mate Logging System App from the Apple App Store by searching for "sparkemate" or "sparkelog":

SOS only 奈	3:28 pm	* 🗾 +
Q spark-e	e-log	1 Result 🛞
	Spark-e-log Design 2000 No Ratings	FREE
	SOS only 🗢 5:31 pm	Edit
	20 Rosella Rd Replace 20A MCB with 32A RCBO 42 Wallaby Way Install new circuit with double GPO and R	> cbo
	7 Kangaroo Crescent New home extension fitout	>
	Wombat Lane New GPO installed	>
	Jobs Settings	A bout
$\overset{\wedge}{\swarrow}$		Q 🕁
Featured To	pp Charts Near Me	Search Updates



4.2 Getting ready to connect Spark-e-mate with your iOS Device

1. Go into the settings screen on your iPhone and make sure Bluetooth is turned on:



Important: Unlike previous Bluetooth technologies, the Bluetooth Smart module in the Spark-e-mate 493BTLi does <u>not</u> need to be 'paired' with your phone or have PIN codes entered before you can use it. All you need to do is install the Spark-e-log App and make sure your phone's Bluetooth radio is turned on.

SOS of	nly ᅙ 10	:43 am	• • • • • • • • • • • • • • • • • • •
< Jo	bs L	ogs	Edit
	Disco	onnected	
(1/0 ⁻ Note:	1 dy tip! /2014 12:00:00AM Press and hold a een pass and fail		ge status
V 24 P		etooth to All ' to Connect essories	
0.	Settings	Canc	el
	vered Fault L ZsOhms (23/09/20		~
16ms	D Test at 30mA (90 degre	ees) (23/09/2014	~

If your phone's Bluetooth radio is OFF when you start the Spark-e-log App, it will let you know and guide you to the

Settings screen.

4.3 Establishing a Bluetooth Connection

1. Find the Spark-e-log App icon on your installed Apps screen and press it:



2. Spark-e-log will then start. Make sure your Spark-e-mate is turned on.

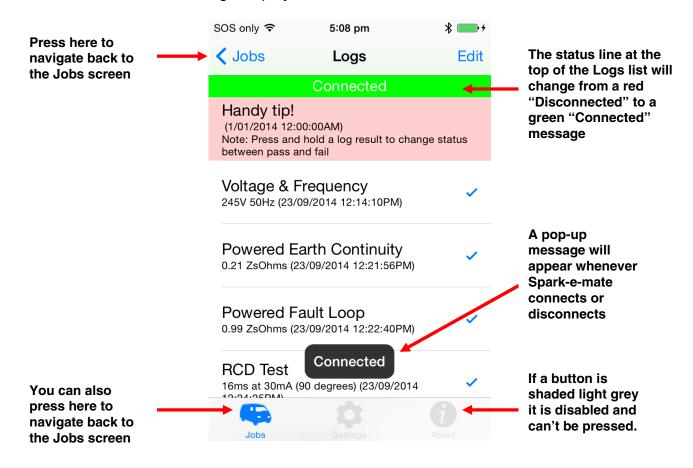
	SOS only 穼	4:52 pm	*
	+	Jobs	Edit
Tap on a job to show the test results logged for that job	and preferences.	is button to enter you Tap a job to view log ogs screen to connect	s. You 💙

When first installed, the Spark-e-log App comes with a single demonstration job entered into its database as shown above.

Let's quickly test the Bluetooth connection. Press the demonstration job to bring up a list of example logs (test results) under that job:

SOS only ᅙ	5:02 pm	*+			
🗸 Jobs	bs Logs				
	Disconnected				
Handy tip! (1/01/2014 12:0 Note: Press and between pass a	hold a log result to c	hange status			
Voltage & F 245V 50Hz (23/0	requency 09/2014 12:14:10PM)	~			
	arth Continuity 3/09/2014 12:21:56P	V			
Powered Fa	ault Loop 3/09/2014 12:22:40P	M)			
RCD Test 16ms at 30mA (9	90 degrees) (23/09/20	014 🗸			
Jobs					

After a few seconds your Spark-e-mate will connect to your iPhone and you will hear a sound with the "Connected" message displayed:



It's important to remember that <u>you must select a job and be in the Logs screen before</u> <u>Spark-e-mate will connect.</u> If you navigate away from the Logs screen Spark-e-mate will disconnect.

4.4 Settings Menu

Before we start logging and reporting, it's time to let Spark-e-log know about yourself and your Spark-e-mate.

Navigate back to the Jobs screen, then press the "Settings" button to enter a few basic things such as your email address, Company details, Spark-e-mate serial number and last calibration/purchase date:

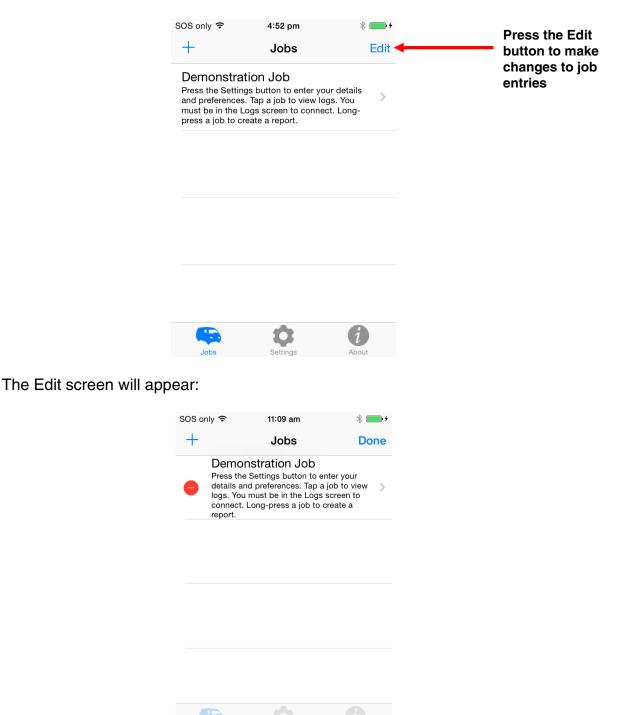
	SOS only 🗢	5:40 pm	• +	
		Settings		
	Spark-e-ma serial numb			
	Your compa name	Design 2000		
	Your email	mike@design2	000.com.au	
	Mark all nev (be careful!)	w logs as passed		
	Play sounds	5		
	Calibration	(or purchase) date		
	26	August	2011	
	27	September	2012	
	28	October	2013	
	29	November	2014	
Dark grey buttons	30	December	2015	Press to bring
are active and can		☆ ←	-	up the Settings
be pressed	Jobs	Settings	About	screen

- Your serial number can be found on a sticker on the back of Spark-e-mate.
- To use Spark-e-log without sounds, slide the "Play Sounds" option across so that it is no longer green.
- If the "Mark All New Logs As Passed" option is enabled (green) then all new tests you log will be automatically marked as "Passed" and you must manually change them to
- "Failed" if needed, otherwise they will always be marked as "Failed" and you will have to manually set each result to "Passed" as required. Note that Spark-e-log will always mark simple GO/NO GO tests such as "Circuit Connections" as passed even if this option is disabled. It is always your responsibility, not Spark-e-log's, to interpret any result and mark it as passed or failed after consulting with current AS/NZS 3000 Standards.
- If your Spark-e-mate is new, enter the date of purchase as the last calibration date.

• Any changes you make to the settings are automatically saved when you leave the screen.

4.5 Editing or Deleting Jobs and Creating New Jobs

1. Go back to the Jobs screen and press the "Edit" button:

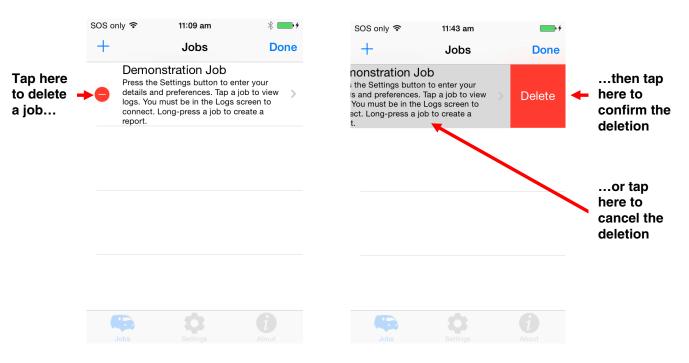


2.

3. To edit the job simply tap the job entry and you'll be able to change the Job Name and your customer's Email Address. You can also add or edit any optional notes associated with that job:

SOS only T1:12 Cancel Edit	р <u>—</u> Г	Press Done to save your changes or press Cancel to ignore any changes	SOS or Cano EMA	el	11:18 am Edit Job	Done
JOB NAME		, .	You	r custome	er's email addr	ess
Demonstration Job			NOT	ES	/	
EMAIL		 Tap on a text box to move the cursor so 			ngs button to	
Your customer's email	laddress	you can edit that text	logs	You must	eferences. Tap be in the Log press a job to	
QWERT	YUIOP	Scroll the edit area above the keyboard	QV	VE	RTY	UIOP
ASDFO	G H J K L	up with your finger to see the Notes	Α	S D	FGH	JKL
	/ B N M <			zx	CVB	ΝΜ
123 🖳 spa	return		123	Q	space	return

4. To delete a job tap on the red "-" circle in the edit screen:



5. To add a new job tap the "+" button:

	SOS or	ily 🗢	11:09 am	* 💼• +	SOS only	Ŷ	11:5	7 am			• +		
,	+		Jobs	Done	Cance	1	Add	l Job		Do	one 🔪		
Tap to create a new job	•	Press the Set details and pr logs. You must	ration Job tings button to ent references. Tap a jo st be in the Logs so g-press a job to cro	b to view	JOB N Nar	AME ne of J	ob					sav	ess Done to ve your
					EMAIL Custo	omer Em	ail					En Na	anges ter the Job me and your stomer's Email
					QW	E	RT	Υl	I I	9	Ρ		
					Α	SD	F	GН	J	κι	-		roll the edit a above the
						zx	C	VВ	Ν	M	\mathbf{x}	wit	yboard up h your finger
		obs			123	Q	sp	ace		retu	rn	to	see the Notes

6. After pressing "Done" the new job will appear in the Jobs list. Press "Done" again to exit the Edit screen:

+	12:04 pm Jobs	Done		SOS only 奈 ┼	12:11 pm Jobs	Edit
Press the details a logs. You	e Settings button to en nd preferences. Tap a j u must be in the Logs s Long-press a job to c	job to view >	Press Done to exit the Edit screen	and preferences	gs button to enter your details . Tap a job to view logs. You ogs screen to connect. Long-	>
Hy Ne A small r	ew Job	>		My New Jo A small note	b	>
is a	T e new job added to e Jobs list		you can now tap on the new job to go into its Logs screen			
Jobs				Jobs	Settings Abo	

4.6 Logging your Test Results

Tapping on a job entry brings up a list of all tests logged under that job. If no tests have yet been logged for that job, such as when a new job has just been created, the log screen will be empty. You must be in the log screen before you start logging results from your Spark-e-mate so that log entries are added under the correct job.

You can tell that Spark-e-mate is connected to your iPhone and is ready to log when you see the Bluetooth symbol in the bottom-right corner of the Spark-e-mate display.

Whenever the LOG button appears on the Spark-e-mate display, you can press the LOG button to send the displayed test result to your iPhone and store it against the currently selected job.

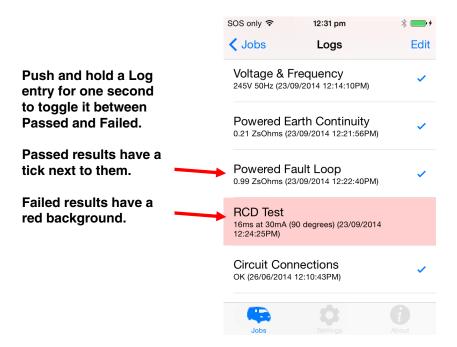


Both Spark-e-mate and your iPhone will beep to indicate successful data transfer. The test result appears in the Logs screen and is saved in Spark-e-log's database.

To edit or delete a logged test, press the "Edit" button. The editing process is exactly the same as when we edited a job:

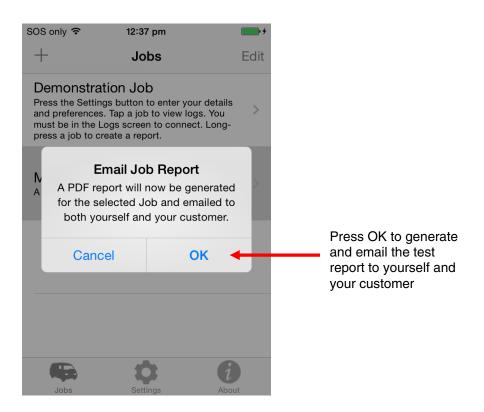
	SOS only 穼	12:22 pm	* 💼 +
	Cancel	Edit Log	Done
In the Edit Log screen you can add notes to	DETAILS		
that test result and also mark it as Passed or	23/09/2014	12:22:40PM	
Failed.	Powered Fa	ault Loop	
The actual test result cannot be changed.	0.99 ZsOhn	าร	
If a result is not wanted,	PASS / FAIL		
you should delete it,		Passed	
take another test, then log a new result.	NOTES		

Tip: A quick way to mark a log result as Passed or Failed is to <u>push and hold</u> a log entry for one second.



4.7 Printing your Test Results

1. <u>Push and hold</u> the required job entry for one second to generate a report:



• Spark-e-log generates the report in PDF format and attaches it to an email. It will send a copy to yourself using the email address you entered into the Settings screen (see *4.4 Settings Menu*) and another copy to your customer using the email address you entered for that job (see *4.5 Editing or Deleting Jobs and Creating New Jobs*):

SOS only 중 Cancel Spa	12:50 pm ark-e-mate Report	Send	 Make any required changes to the email subject or message
To: mike@de	sign2000.com.au		text then press Send
Cc/Bcc:			
Subject: Spa	ark-e-mate Report		
Attached is report.	your electrical instal	lation	
pdf sparkemate.pd	f		

Sent from my iPhone

Energisation or Verification of an Installation

(AS/NZS 3000:2007 Clause 8.4)

Date of energisation and original verification details are to be recorded and available on site in this accessible record. This also facilitates the process of re-verification at a later date.

ELECTRICAL INSTALLATION & VERIFICATION RECORD			LATION: tration Job			
DATE OF ENERGISATI	ON: / /					
Testing Organisation & Department	Design 2000					
Test Equipment	Model Number		rial Number	Manufacturer	Date of Purchase or Last Calibration	
Spark-e-mate Electrical Installation Tester	I Clipsal Cat. No. 493BTL		A1234567 Design 2000 Pty Ltd		28/10/2013	
Test Date and Time	Test		Measurement		Notes	Result
23/09/2014 12:14:10PM	Voltage & Frequency		245V 50Hz			Pass
23/09/2014 12:21:56PM	Powered Earth Continuity	Powered Earth Continuity		0.21 ZsOhms		Pass
23/09/2014 12:22:40PM	Powered Fault Loop	Powered Fault Loop		0.99 ZsOhms		Pass
23/09/2014 12:24:25PM	RCD Test		16ms at 30mA (90 degrees)			Pass
26/06/2014 12:10:43PM	Circuit Connections		ок			Pass

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*** End of Document T14221 ***