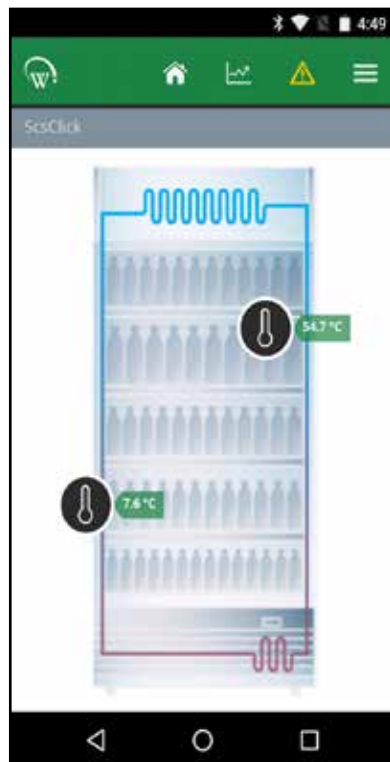


TECHNICAL USER MANUAL

SCSTM CLICK

Wellington[®]



© 2017 Wellington Drive Technologies Limited

21 Arrenway Drive, Rosedale, Auckland 0632, New Zealand
PO Box 302-533, North Harbour, Auckland 0751, New Zealand

Tel.: + 64 9 477 4500, Fax: + 64 9 479 5540,
E-mail: info@wdtl.com Website: www.wdtl.com



TABLE OF CONTENTS

Quick Read

1	TECHNICAL USER MANUAL	12	GRAPHICAL USER INTERFACES
3	TABLE OF CONTENTS	21	UPGRADING FIRMWARE
4	WARNINGS!	23	TECHNICAL SPECIFICATIONS
6	INTRODUCTION	26	GLOSSARY
7	Installation Diagrams		
8	EMS55 Set-up		
10	Process Overview		



WARNINGS!

Quick Read

Please read the following warnings to maintain the safe function and continued performance of your Wellington Drive Technologies Limited **SCS™ CLICK**:

- ❑ Installation;
Installation of the **SCS™ CLICK** other than in accordance with the “Description & Install” section of this manual will invalidate the warranty. The **SCS™ CLICK** must only be installed and configured by trained and authorized staff.
- ❑ No serviceable parts;
There are no serviceable parts inside the **SCS™ CLICK**. Do not open the housing. Opening of the electronics housing, altering or modifying the **SCS™ CLICK** will invalidate the warranty and can cause risk of electrocution.
- ❑ Consequential failures;
Failure of connected components may cause damage to the **SCS™ CLICK**. Critical or vulnerable components should be protected independently against failure. **SCS™ CLICK** is not warranted against damage caused by or to other components.
- ❑ Fit for purpose;
The **SCS™ CLICK** must only be used for the purpose and functions described in this manual. While Wellington Drive Technologies Limited may provide technical support on suitable applications and configuration of the **SCS™ CLICK** (where such a relationship may exist), no liability, responsibility or risk is accepted in determining if the **SCS™ CLICK** is fit for purpose for any particular application. no liability, responsibility or risk is accepted by Wellington Drive Technologies Limited for the correct operational function of any particular installation or configuration.
- ❑ Continuous development;
Wellington Drive Technologies Limited undertakes to continuously develop and improve products and services. The design and specification for the **SCS™ CLICK** is subject to change without warning. The contents of this manual are subject to change without warning. While every endeavour is made to ensure that all specifications and documents are current and complete, Wellington Drive Technologies Limited accepts no liability, responsibility or risk due to omissions or changes caused by continuous improvement and design changes. Users of this manual should verify that they have the current released version (published on the Wellington Drive Technologies website www.wdtl.com) before proceeding.

Important Do's and Dont's:

- ❑ Do not drop the **SCS™ CLICK**.
- ❑ There are no serviceable parts inside the **SCS™ CLICK**. Do not open the housing. Warning! Risk of electrocution.



- ❑ The **SCS™ CLICK** must only be used for the purposes described in this manual.



- ❑ The design and specification of the **SCS™ CLICK** is subject to change without warning.



Warnings - cont

- Correct disposal;
The **SCS™ CLICK** is subject to EU Directive 2002/96/EC (WEEE) for e-waste. It may also be subject to other national legislation for the safe disposal of e-waste. The **SCS™ CLICK** must not be disposed off in municipal collections; it must be disposed off through an approved WEEE collection point. Alternatively, the **SCS™ CLICK** may be returned to an authorized Wellington Drive Technologies Limited distributor at the end of its working life. Penalties may be applicable for incorrect disposal, as specified by national legislation. The circuit board may contain hazardous substances which could affect health and the environment if disposed off incorrectly. The **SCS™ CLICK** complies with EU Directive 2002/95/EC (RoHS).
- Chemicals:
The **SCS™ CLICK** must not be exposed to any solvents or chemicals, as this will invalidate the warranty and may damage the housing, leading to unsafe operation.
- Temperature:
The **SCS™ CLICK** must only be subjected to temperatures as specified in the “Datasheet” and the “Technical specification” section of this manual. Exceeding these ranges either in operation, installation, transportation or storage, will invalidate the warranty and may damage electronic circuits and housing components, leading to premature failure.
- Vibration and impact:
The unit must be installed in such a way as to be protected from impact in operation. Exposure to impacts, either in operation, installation, transportation, or storage, may damage electronic circuits and housing components, leading to premature failure, and may cause the **SCS™ CLICK** to become unsafe. Any impact which causes visual damage to the housing will invalidate the warranty.
- Voltages:
The **SCS™ CLICK** must only be connected to equipment which comply with the acceptable voltage ranges specified in the “Datasheet” and the “Technical Specification” section of this manual. Connection to supply voltages outside of these ranges can damage electrical circuits, leading to premature failure, and may cause the **SCS™ CLICK** to become unsafe and invalidates any warranty due to incorrect voltages.

Quick Read

- The SCS Click must not be disposed off in municipal collections; it must be disposed off through an approved e-waste collection point.



- Do not drop the SCS™ CLICK.



- Do not connect the SCS™ CLICK to the incorrect supply voltage.



INTRODUCTION

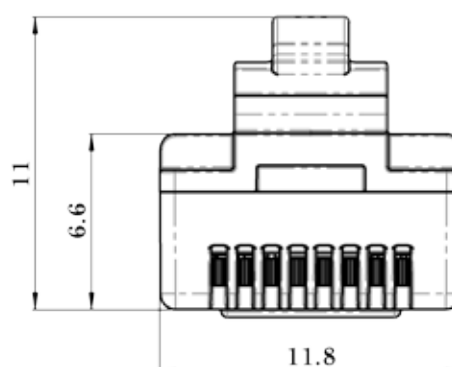
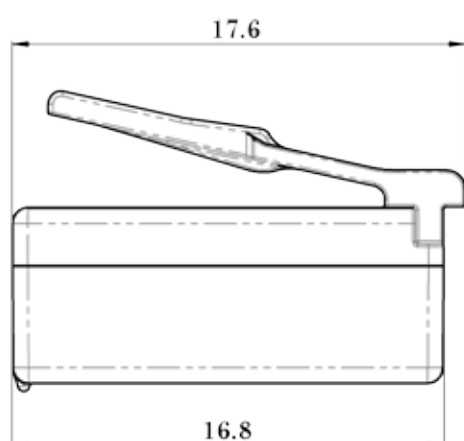
Quick Read

The **SCS™ CLICK** by Wellington is an Bluetooth LE transmission adaptor designed for providing radio connectivity to existing refrigeration controllers in the market. It adds functionalities such as telemetry connectivity, asset tracking, and proximity based marketing capabilities to existing coolers.

The interface system permits different groups of users to have different levels of control, based upon their levels of expertise and their actual control needs.

A unique feature is a mobile app that gives authorized Service Technicians full wireless access to data logging and diagnostic control.

- ☐ Highly flexible and configurable
- ☐ Mobile app with intuitive touch screen interface
- ☐ Wireless data logging and diagnostic control
- ☐ Compact size



Installation

Installation Diagrams



INSTALLATION PROCEDURE:

STEP 1

Remove the two screws holding the RJ45 cover in place with PZ1 screwdriver and remove cover

STEP 2

Push SCS Click fully into the RJ45 socket.

Ensure it makes a Click sound, and the retaining feature is clicked into place.

STEP 3

Ensure that the SCS Click is flashing green every few seconds. This means it is installed correctly and powered up.

STEP 4

Replace the cover and two screws.

Installation

EMS55 Set-up

EMS55 SETUP PROCEDURE:

STEP 1

Press the top left button ("a"), Will then be ready to accept the password.



STEP 2

Enter the password by pressing the buttons in the following order.

Top Left ("a") - 3 times

Top right ("b") - 2 times

Bottom right ("c") - 1 time

Bottom left ("d") - 4 times



STEP 3

The display will now show P5.



STEP 4

Press the Bottom right ("c") button 5 times until "ddP" is displayed. It will alternate between displaying "ddP" and "00"



Installation

EMS55 Set-up

EMS55 SETUP PROCEDURE:

STEP 5

Press the Top Left ("a") button once. The display will now be alternating between displaying "ddP" and "00".



STEP 6

Hold the Top right ("b") button until "01" is displayed.

Display will then alternate between "ddP" and "01".



STEP 7

Wait for 20-30 secs for the Elstat to timeout. It will then re-boot and return to normal operation.

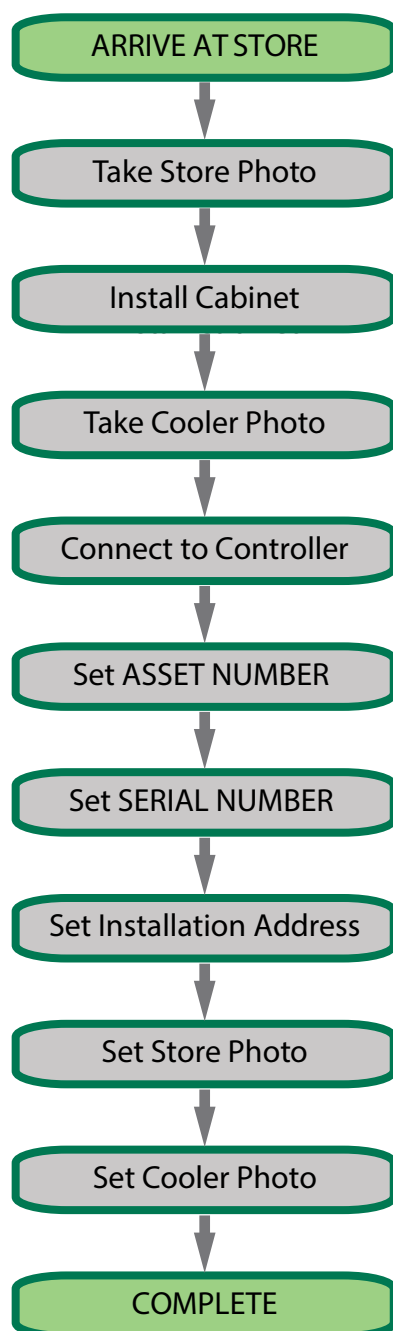


Process Overview

Process steps involving the **SCS Connect** Field mobile app are described step by step below.

Before connecting to the cooler with the app, take photos of

- The outlet (from the outside).
- The cooler.
- The area of the outlet where the cooler is located, showing enough of the surroundings to understand the cooler's in-store position.



It is VITAL that the asset number is set. If this is not set, no reporting or asset tracking of the cooler can be made.

Process Overview

During two of the process steps, data is required to be entered into the controller.

- ☐ Cabinet installation in the field.
Information is entered through the use of a mobile phone application (See page 15)

The order in which data is entered into the **SCS CLICK**, and at which process step may differ from manufacturer to manufacturer and owner to owner depending on existing manufacturing processes.

The **SCS Connect** Field mobile app requires four attributes to be entered during the entire installation process:

- ☐ Model
Used by the automated fault detection
- ☐ Serial No.
Used for recording purposes
- ☐ Asset No.
Used for cooler identification in asset tracking
- ☐ Installation Address
Used by the asset tracking

Additional attributes which can be entered into the **SCS Connect** mobile app in the field are;

- ☐ Additional data
- ☐ Photo and Notes

Quick Read

- ☐ Attributes can be set
 - ☐ Model
 - ☐ Serial No.
 - ☐ Asset No.
 - ☐ Installation Address
 - ☐ Additional data
 - ☐ Photo and Notes

GRAPHICAL USER INTERFACES

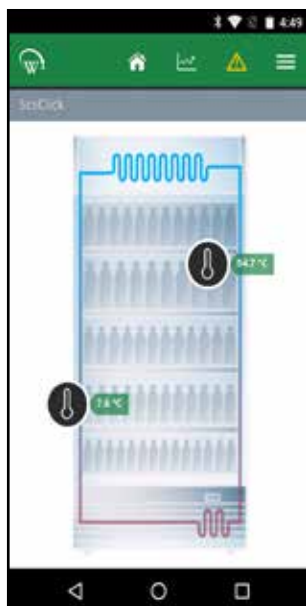
Quick Read

The Wellington **SCS Connect** App provides a wireless connection to the **SCS CLICK** from mobile devices fitted with Bluetooth® LE. This gives users and technicians an unprecedented level of visibility and control. The following guide provides an overview of the app and its capabilities.

Note: Screen shots shown are indicative only. Different devices have different screen ratios, sizes and resolutions. The actual image seen on your device may vary from the screen shots shown in this guide. Holding your device in portrait or landscape mode may have an effect on appearance and may change how the various windows and graphics are displayed and arranged on your screen.

- ☐ Bluetooth® SMART compliant.
- ☐ Wireless diagnostics and control.
- ☐ Customized app branding available on special request.
- ☐ Secure, only authorized connections permitted.

User Interfaces



In-Field Set-up

Select a device to connect to from the list of visible devices.

Note: This list is filtered by your activation permissions, so devices you are not authorised to connect to will not be displayed.

Select "Connect" to connect to the cooler

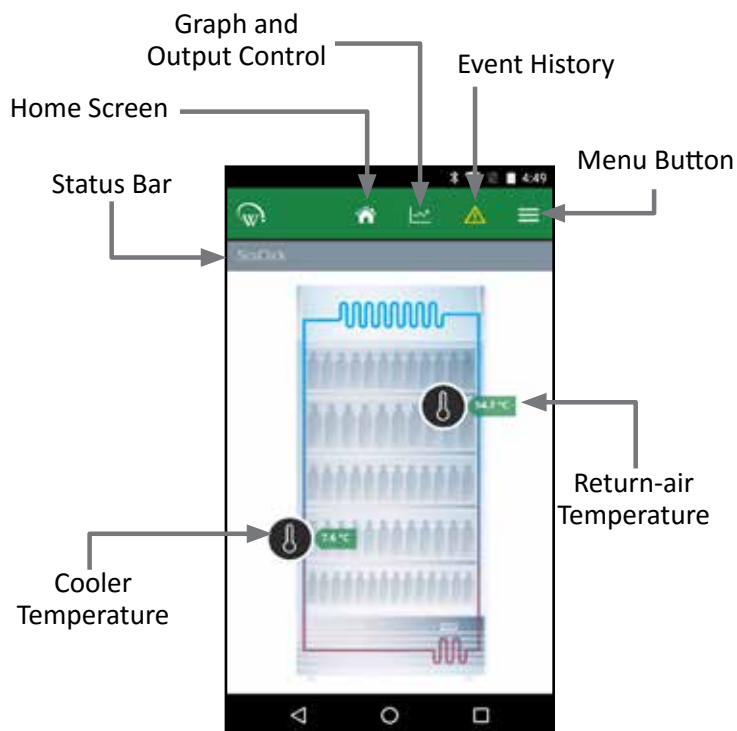
Note:

The signal strength is the number in brackets on the right of the cooler ID. If signal strength is lower (more -ve) than -80, connection may be unreliable: move closer to the cooler. If multiple cooler IDs are visible, the strongest (least -ve) signal is likely to be the one closest to you and make sure Bluetooth is turned on.



Home Screen

The Home Screen shows a graphic representation of the current state of the refrigeration unit being controlled.



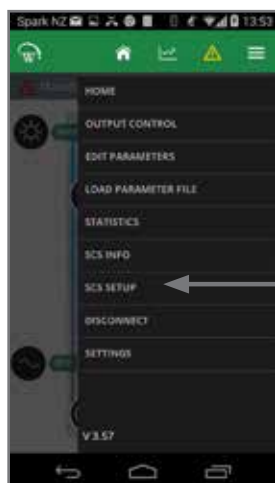
Home Screen
(Fridge Status)



Main Menu

MOBILE GUI - cont

In-Field Setup



Select "SCS Setup"
from the Main menu



Select the dropdown
menu and select the
cooler manufacturer.

Push OK

A pop up will show with
"Manufacturer needs to be
set" Dialogue box.



Choose EDIT to
add the Cooler
Asset Number.