CLICKsmart

Installation Manual

Wireless Touch Control Unit

Thank you for purchasing the RF TOUCH wireless control device

RF Touch allows you to:

- Control numerous Click Smart devices via the touch screen
- Control and dim lighting
- Switching of electrical loads and equipment
- Blinds / shutters / curtains etc.
- A combination of detectors
- 'Holiday Mode' settings for switching, dimming and blind receivers
- Create scenes/moods to control multiple devices from a single touch of the screen
- Visualise the status (ON/OFF etc.) of all devices on the system
- Communicate wirelessly with devices, eliminating the need for cabling to a central point

Additional Settings

Before you start

Please ensure you read and understand both manuals prior to installing and using the RF Touch.
The instruction manual is intended to aid installation and use of the equipment. Installation of the product can only be carried out by a qualified electrician and must be wired in accordance with the latest IEE Wiring Regulations.
Dependant on the number of devices programmed, the screen may lag slightly especially during programming whilst the RF Touch waits for the return signal from the relevant device.
We recommend the installer undertakes training prior to commencing with any Click Smart installation.
Trouble free functioning of the RF Touch is dependent on correct storage and handling. If there are any signs of damage, deformation, malfunction or missing parts, do not install this product and please return it to the distributor.
Incorrect installation or mishandling of the product may invalidate the warranty.
Standard warranty is 12 months from date of purchase.

Settings

Overview Of Click Smart Devices

All receivers in the Click Smart range can be controlled by the RF Touch central unit and all transmitters of the system simultaneously.

Switching Receivers

RFSAI-61B
16A 230V~ single channel
multifunction switching receiver
with 3V DC switch input
6 functions

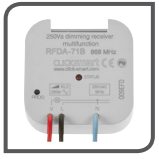
RFSA-62B
2 x 8A 230V~ two channel
multifunction switching receiver
6 functions on each channel

RFSA-61M
16A 230V~ single channel
multifunction switching receiver
6 functions

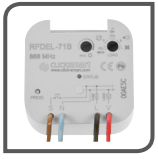
RFSA-66M
6 x 8A 230V~ six channel
multifunction switching receiver.
6 functions on each channel

RFSC-61
13A 230V~ multifunction
plug-in switching receiver
6 functions

Dimming Receivers



RFDA-71B
250Va 230V~ multifunction
dimming receiver
(de-rate for LED loads)
7 functions



RFDEL-71B
160Va 230V~ multifunction dimming
receiver with load selection, trim
function and switch input
7 functions

RFDAC-71B
Receiver with analogue
output 0(1)-10V 1 x 16A 230V
AC switching contact
7 functions

Control of 1-10V dimmable ballasts
and other 0-10V devices.

Blind / Shutter Receivers

RFJA-12B/230V
8A 230V AC switching
relay receiver

RFJA-12B/24V DC
12-24V DC contactless
switching receiver

Detectors

JA-82M
Wireless window / door contact
(UPVC frames)
2 x CR2354 3V batteries

JA-83M
Wireless window / door
contact
1 x CR123A 3V battery

JA-83P
Wireless PIR sensor
1 x CR123A 3V battery

Characteristics

The RF Touch central control unit provides intelligent control

It can be used for:

- Central control of all units from one place
- Complete overview (visualization) of the current status of units (appliances / equipment)

Features:

- Can control switching, dimming and shutter receivers
- Displays feedback from detectors
- Programmable for simulated occupancy with holiday mode

Design:

- RF Touch is surface mounted with 100-230V power supply wired directly in to the back or from the 12V DC plug in transformer (supplied)
- 3.5 inch colour touch screen (no mechanical buttons)
- 40 receivers and 30 detectors can be assigned to each RF Touch unit

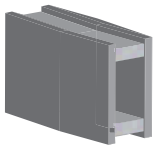
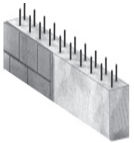
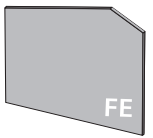
Technical Parameters	
Display	
Type:	Colour TFT LSD
Resolution:	320 x 240 pixels / 262,144 colours
Aspect ratio:	3 : 4
Visible area:	52.5 x 70 mm
Backlight:	Active (white LED)
Touch screen:	Resistive 4-wire
Display:	3.5”
Control:	Touch sensitive
Power Supply	
Voltage / specific current:	Terminated in to the back 100 - 230 V AC From the side 12 DC *
Power consumption:	Max. 5 W
Power supply connector:	A1 - A2
Control	
Range up to:	100 M
Minimal range RF Touch – actuator:	1 metre
Frequency:	868.5 MHz

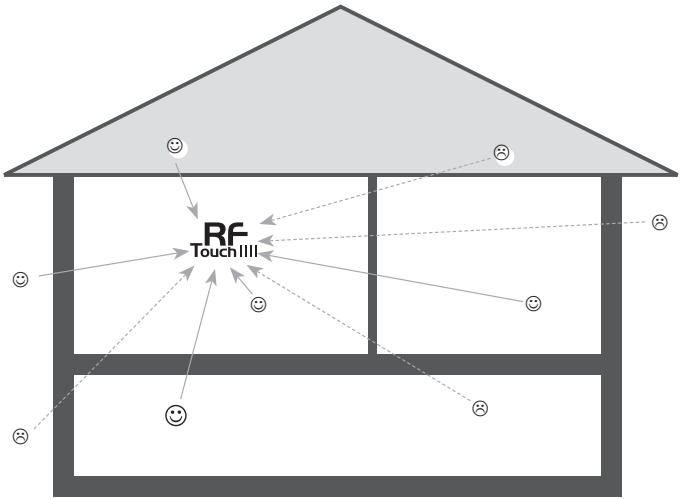
Technical Parameters	
Connection:	Screwless terminal push-in or 12V DC jack ⌀ 2.1 mm
Max. cross section of wires:	Max. 2.5 mm^2 / 1.5 mm^2 with socket
Operating Conditions	
Operating temperature:	0 ... +55°C
Storage temperature:	- 20 ... +70°C
Protection:	IP 20
Over voltage category:	III
Pollution degree:	2
Operating position:	Arbitrary
Installation:	Surface Mounted
Dimensions:	94 x 94 x 24 mm
Weight:	175 g
Standards:	EN 60669, EN 300 220, EN 301 489, RTTE Directive, NVNo.426/2000Sb (Directive 1999/ES)

Positioning Of The RF Touch And Click Smart Devices

Please note: The radio signal range of the Click Smart installation depends on the building construction, materials and position of all devices. Before final fixing the RF Touch we suggest that a communication test is performed to each receiver from the RF Touch when it is in the proposed installation location (See menu create and programming sections)

Transmission of radio-frequency signals through various materials

	Wooden structures with plasterboard **80-95 %**		Standard glass **80-90 %**
	Brick wall **60-90 %**		Reinforced concrete **20-60 %**
	Metal plates **0-10 %**		



Direct 230V Termination

230V Supply
A1 - Live (Brown)
A2 - Neutral (Blue)
(The centre termination is not used)

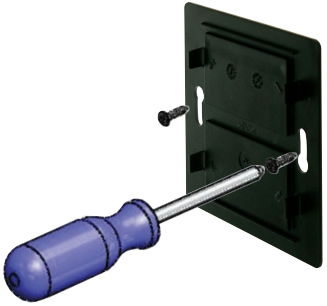
Double Insulated

Ensure the electrical circuit is isolated prior to starting any electrical installation. Any electrical installation must be undertaken by a qualified electrician in accordance with the latest IEE Wiring Regulations.

Power Supply Adapter

12V DC plug-in adapter (supplied)

Fitting



Overview Of Screen Icons

Basic


RF Touch version Information and number of assigned units


Settings


Back to the home screen


Step back one screen

Setup Menu


Scroll up


Scroll down


Confirm


Yes/selected


No/not selected


Add


Edit/remove


Name/address of the receiver(s)


Delete

Main menu


Switching


Dimming


Blinds


Detectors


Quick control

Keyboard


Dot


Letters


Small/capital letters


Space


Switch - letters / numbers


Confirm


Erase previous

Holiday Mode


7 Day Timings


Holiday Mode

Switching


Switch on


Switch off


Impulse


Button


Time function
- delayed switch on
- delayed switch off

Detectors


Searching detector(s)

Dimming


Switch on


Switch off


Dimming


Dim up time


Dim down time


Confirm

Blinds


Raise blinds

Lower blinds

Measured time +2s

Installation Form

Complete the installation form as follows:

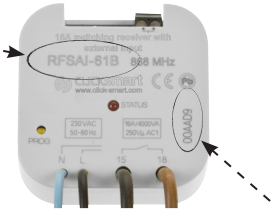
- Location of each unit (to create a menu) i.e. lounge / front bedroom etc. and the circuit it controls (20 characters max.)
- Device function, i.e. switching / heating / dimming etc.
- Each unit's product reference (e.g. RFSAI-61B, for the correct classification of the group)
- Address of each unit (to identify the receiver, for example: 00AAD9)

Completing the form will aid programming of the RF Touch and will help with any future maintenance or additions to the system.

We also recommend noting details of the quick controls with noting light levels when dimmed and time settings where applicable.

The installation form is supplied with this manual or can be downloaded from www.click-smart.com.

Product reference
E.g. RFSA-61B



Address
E.g. 00AAD9

Example of form information required:

No.	Location/Circuit (20 chars)	Device Function	Receiver Part No.	Receiver Address
1.	Porch Light	Switching	RFSAI-61B	00AAD9
2.	Lounge Wall Lights	Dimming	RFDEL-71B	00AB34
3.	Lounge Table Lamp	Switching	RFSC-61	004D14

Initial Setup

Calibration

When the RF Touch is switched on for the first time the 'display calibration' screen will appear automatically. The touch screen is controlled by lightly touching the desired location. On the screen (Fig. 1) appears a cross starting in the top left corner, cleanly press on the cross twice, repeat for the remaining three corners when the cross is shown.
The RF Touch is now calibrated.

Note: In the event the screen does not calibrate correctly, turn off the power and then back on. When the 'RF TOUCH' logo appears, press and hold the screen until the calibration screen appears. Calibrate as above.

Fig. 1

Content Of The Home Screen

- Date and day
- Time (touching on the time in the top right corner of the display will switch between analogue and digital clocks (Fig. 2 & 3)
- Either the 7 day icon or holiday mode icon may be displayed if preferred. See page 24
- The three boxes along the bottom can be customised to show favourite functions, e.g.: lighting, scene etc. (Fig. 4). See page 27
- Touch the main clock area to enter the Main menu (Fig. 5 & 6)

Fig. 2

Fig. 3

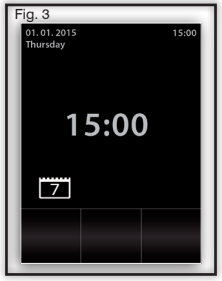


Fig. 4

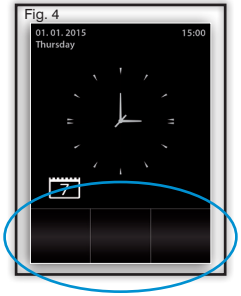
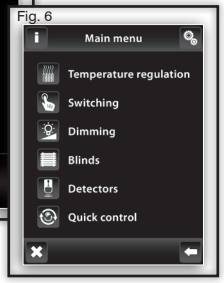


Fig. 5

Fig. 6



Main Menu / Settings

The 'Settings' menu can be accessed by pressing in the top right corner of the screen (Fig. 7).
The password screen (Fig. 8) then appears.
Enter the default password '1111' and press 'OK' to fully access the 'Settings' menu (Fig. 9).
Note: The password can be changed to help prevent access to the settings menu, see page 25 for more information.

Fig. 7

Fig. 8

Fig. 9

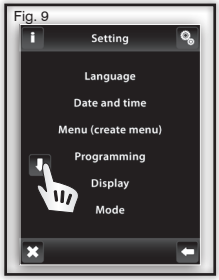
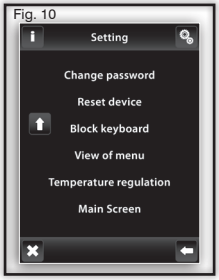


Fig. 10



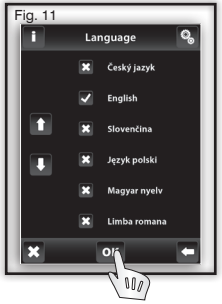
Setting Menu

The 'Settings' menu contains two screens. Press the buttons to move between the screens (Fig. 9 & 10).

Language

Select language (Fig. 9)
Select the preferred language - (Fig. 11)
.
Press **OK** to save.

Fig. 11



Date & Time

Select Date and time (Fig. 9)
- Date and Time
- Automatic transition between winter & summer time (Time Zone GTM +01:00)
- Format settings hours (12h / 24h mode)

Press **OK** to save.

Fig. 12

Fig. 13

Settings - Menu Create

Using the information in the completed installation form, programme the individual location/circuit names in to the RF Touch menu.

Menu (create menu)

Menu (create menu) is used to add, edit or remove the location and circuit names of the individual devices on to the system. In this menu (Fig. 1) you need to first create your own device location labels for the sections you want to control.
Creating names is important for successful programming of the RF Touch. Quick Control names should describe the mood / scene to be created e.g. 'TV' or 'Reading'.
Each receiver must have its own location /circuit identification, e.g. if there is more than one blind receiver in one location (room), then you must ensure you can easily identify each one, e.g. Kitchen Blind 1 / Kitchen Blind 2 etc.

Menu (create menu) - Add

Press the + Add icon (Fig. 2) to show a list of sections (Fig. 3):

- **Switching**
- **Dimming**
- **Blinds**
- **Detectors**
- **Quick Control**

Choose the section where you want to add the location / circuit name and type your own text using the keyboard on the screen (max. 20 characters).
Example 1: If you want to setup blind receivers - Select the 'Blinds' section by tapping on the text 'Blinds' (Fig. 3) and the 'Add next'.
Complete for every receiver on the system within the relevant sections e.g. switching receivers, dimming receivers etc.

Fig. 1

Fig. 2

Fig. 3

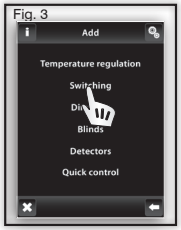


Fig. 4

Fig. 5

Menu (create name) - Edit

The Edit button is used to modify an existing name in the menu listing.

Press the Edit icon (Fig. 6), the section menu appears, select the device function in which you want to edit the created name (Fig. 7). Select the name to be edited (Fig. 8) and then edit with the displayed keyboard.
Press **OK** to save (Fig. 9).

Menu (create name) - Remove

The Remove button can be used to delete an existing created name in the menu listing.
Press the Remove icon (Fig. 10) the device function menu appears, select the function in which you want to remove the name (Fig. 11). Select the device label you want to delete by touching it. (Fig. 12).
Press to confirm the selection (Fig. 13). **WARNING** - This will also delete any assigned actuator!

Programming - Add, Assign Or Remove

Programming is used to add, assign or remove the receivers / detectors to the location / circuit names created in the previous section. The Programming menu can be accessed from the Main Menu by pressing in the top right corner (Fig. 1). Select Programming (Fig. 2) and then enter the password (default - 1111) (Fig. 3).
The assigning of receivers is divided into sections based on the functionality. Depending on the receiver's type you have to select the appropriate programming section - see Fig. 4 and table below (e.g. Receiver RFSAI-61B - will be found in the Switching section).

RF Control Actuator Types			
Switching	**Dimming**	**Blinds**	**Detectors**
RFSA-6x *	RFDA-71B	RFJA-12B/230V	JA-81M
RFSAI-61B	RFDAC-71B	RFJA-12B/24V DC	JA-82M
RFSC-61	RFDEL-71B		JA-83P
RFDAC-71B			

* RFSA-61B, RFSA-62B,RFSA-61M and RFSA-66M receivers

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Add And Assign A Receiver To A Location / Circuit Name

This enables you to add the address of a receiver and then assign it to a location / circuit name. In the required section (switching, dimming ...) select Assign new (Fig. 5). A list of relevant receiver types will be shown. (Fig. 6). Select the name of the receiver which you want to associate with the location / circuit. Enter the address* of the receiver you want to assign (Fig. 7) as printed on the receiver. From the menu structure created earlier, select the location / circuit name to which the receiver will be assigned (Fig. 8).

- Only one receiver can be assigned to each location / circuit.
- When programming, the receiver must be installed and powered to allow the signal to be tested.
- Communication test (Fig. 10) is used to test the current status of the RF signal between the RF Touch and programmed receiver.
- Press Start (Fig. 11) to initiate the test, the current status of the signal is displayed.
- Press Close to get back to the programming menu.

*6 digit hexadecimal address recorded on the installation form (see page 11).

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

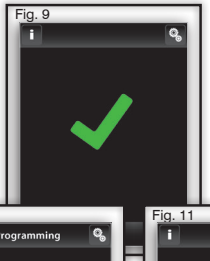
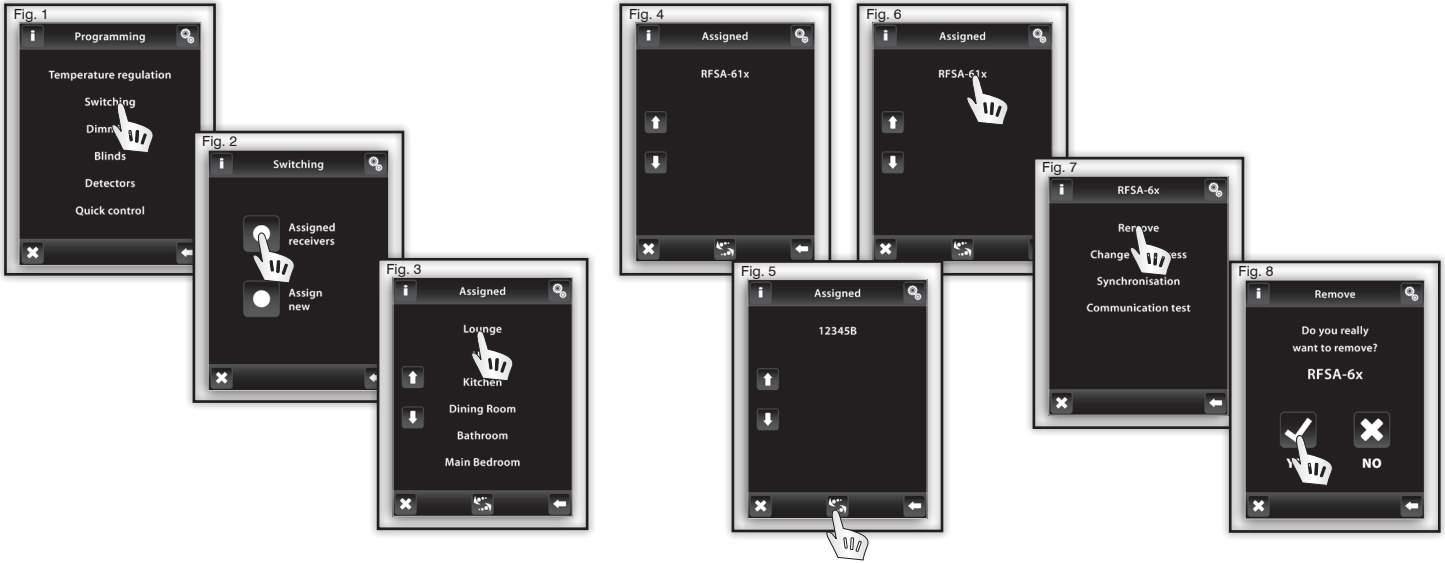


Fig. 10

Fig. 11

Remove An Actuator

When required, it is possible to remove a programmed receiver from the location / circuit name.
Select the required section (Fig. 1), select Assigned receivers (Fig. 2), select the required location / circuit name from the list (Fig. 3).
The assigned receiver is shown (Fig. 4).
By pressing you can check the address assigned to the receiver (Fig. 5).
By pressing the product reference or address of the receiver (Fig. 6) you can then select to either 'Remove', 'Change of address', 'Synchronisation' or 'Communication test' the receiver (Fig. 7).
Remove the receiver by pressing 'Yes' (Fig. 8).



Change Address, Synchronisation And Communication Test

If required, it is possible to change the address from the original programmed receiver to one with the same functionality (Fig. 9 & 10).

The 'Synchronisation' facility (Fig. 11) is only available on switching, dimming and blind receivers. The facility is required (Fig. 12) (☑)for where an receiver is programmed in to more than one RF Touch on the same installation, allowing synchronisation of the receiver status on all RF Touch units.
Note: If only a single RF Touch is installed the 'Activation' button can be left as ☒ (Fig. 13)

Communication test (Fig. 14) is used to test the current status of the RF signal between the RF Touch and programmed receiver.
Press Start (Fig. 15) to initiate the test, the current status of the signal is displayed.
Press Close to get back to the programming menu.

Fig. 9

Fig. 10

Fig. 11

Fig. 12

Fig. 13

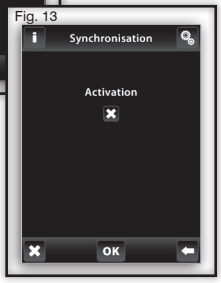


Fig. 14

Fig. 15

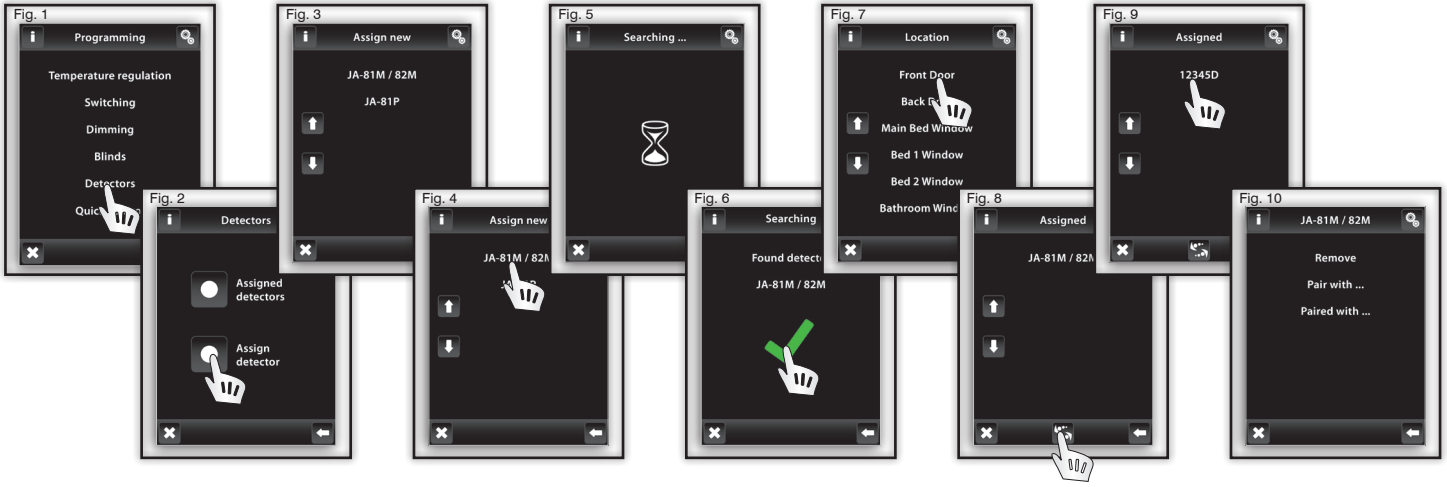
Detectors - Assign

Selecting 'Detectors' within Programming (Fig. 1) enables the assigning or removal of the window, door and PIR detectors to the menu. Select Assign detector (Fig. 2). The list of detectors will be shown (Fig. 3). Select JA-81M / 82M (for JA-83P select JA-81P) (Fig. 4). The RF Touch will start searching for devices (Fig. 5) (the shortest distance to assign a detector is 1.5M).

Do not insert the batteries in to the detector until the RF Touch starts to search!

Insert the batteries in to the detector and it will be recognised once it has transmitted its address.
Confirm the assignment by pressing ☑ (Fig. 6).
Choose the location / circuit name to which the detector is to be assigned (Fig. 7). Each detector may be assigned to one location.
Pressing arrows will display the address associated with the detector (Fig. 8 & 9).
When you touch on the location or address of the detector the following options appear (Fig. 10):

- **Remove...**
- **Pair with ...**
- **Paired with ...**



Remove

Removes the detector from its assigned location label within the 'Detectors' menu. To confirm (Fig. 11).

Note: The two state JA-82M can be used in two ways:

- Information about the status (open / close) - e.g, window is open (without pairing with a switching receiver)
- Pairing with the multifunction switching actuator, which responds to the detector status (open / close) - e.g. light is switched on when you open the door.

Fig. 11

Pair with...

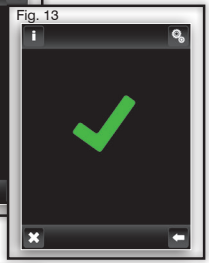
The detector can be paired with multifunction switching receivers from the switching menu, (e.g. detector with hall light, Fig. 12 & 13).
One detector can be paired with up to 30 multifunction switching receivers.
If the detector is paired with a switching receiver the function 'delayed off' is automatically activated. When the detector is activated, the assigned receiver(s) switch the connected device(s) for the programmed time (2s - 60min). Time delay can be set in the Control Menu of the paired switching receivers under 'Next Functions' and 'Setting Time'..
The above method can be used to assign additional detectors.

The RF Touch can be programmed with up to 30 detectors.

Note: The minimum distance between the detector and RF Touch is 1.5 meters.

Fig. 12

Fig. 13

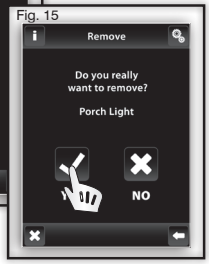


Paired with...

This menu lists the switching receivers which are paired with the detector. By touching the name you can remove the paired receiver if required (Fig. 14 & 15).

Fig. 14

Fig. 15



Quick Control - Assign Receivers

Quick control is used to link / group commands together to form a complex scene or mood that can be operated from a single touch screen button.
For each scene or mood you can assign a combination of up to 20 different receivers.
Note: Quick control names need to be created within the menu (create menu) function prior to assigning devices. See page 14.

Note: Quick control elements can only be created when all of the receivers have been programmed and assigned in the different sections, e.g. switching, dimming etc.

Within 'Programming' select 'Quick control' (Fig. 1), select the scene name (Fig. 2).

Select Assign new (Fig. 3) it will display the functionality list (Switching, Dimming and Blinds). Select the function type you want to assign (Fig. 4). Select the location / circuit name (Fig. 5) and then define what you would like the receiver to do for this one scene (ON/OFF/DIM etc.)(Fig. 6).

The screen will then return to the functionality list (Fig. 4), where you can continue adding elements to the scene.

To assign receivers to another Quick Control scene, press ⬅ twice to get back to the list of scenes / moods previously created.

Fig. 1

Fig. 2

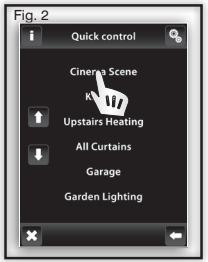


Fig. 3

Fig. 4

Fig. 5

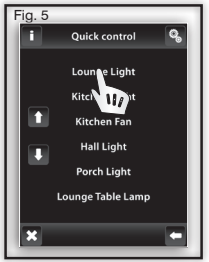


Fig. 6

Remove, Change Of Address And Change Setting

Within 'Programming' select 'Quick control' (Fig. 1), select the scene name (Fig. 2) and then 'Assigned receivers' (Fig. 7). Select the location / circuit name (Fig. 8) to then display the options, 'Remove', 'Change of Address' and 'Setting'.

The 'Remove' (Fig. 9 & 10) facility removes the location / circuit association from the scene's group command list. However the location / circuit name and the assigned receiver will still remain as previously defined.

If required, it is possible to change the address from the original programmed receiver to one with the same functionality (Fig. 11).

The assigned location / circuit, the previously defined setting can be changed under 'Setting', e.g. if previously set to 'Delay ON' you could change it to 'ON' without the delay (Fig. 12).

Fig. 7

Fig. 8

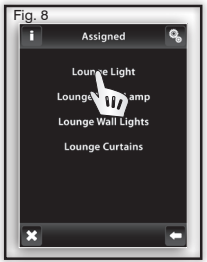


Fig. 9

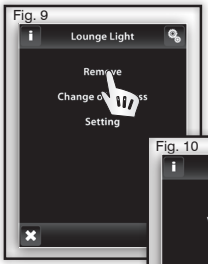


Fig. 10

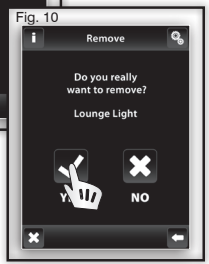


Fig. 11

Fig. 12

Display - Alter Settings

Screen: Change the colour of the screen background (black, blue, green, purple).

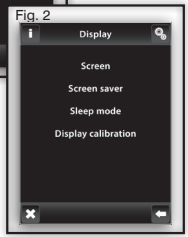
Screensaver: The screen will change to the selected brightness (25%, 50%, 75%, 100%) after the selected time (15s, 30s, 1 min, 3 min) since it was last touched.

Sleep mode: Select the time (0 min, 10 min, 15 min, 20 min) period before the unit goes to sleep (the screen goes off. Touching the screen wakes the unit up). '0 min' the screen stays on.

Calibrating the display: A cross will appear in each corner of the screen one at a time, which needs to be touched twice. Calibration is then complete. (Re-sizes the touch area of the device to the maximum allowable screen area). CAUTION: If you touch the screen elsewhere e.g. inside the position of the crosses, it is possible to reduce the touch sensitive area size to one that will not function correctly.

Fig. 1

Fig. 2



Mode

Gives the option to enable (Fig. 4, 5 & 6) or disable (Fig. 7 & 8) the holiday mode facility on the home screen for switching, dimming and blind receivers.
For more information on setting the times for holiday mode, see the user manual.

Fig. 3

Fig. 4

Fig. 5

Fig. 6

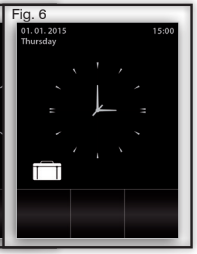
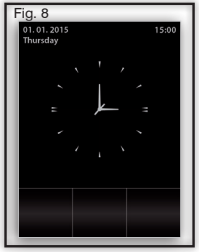


Fig. 7

Fig. 8



Change Password

Gives the facility to change the default '1111' password to help prevent unauthorised access to the programming menu.
Enter the default password (1111) (Fig. 11) the new password screen will appear - type in your new password and confirm. Press **OK** to save (Fig. 12).
Note: Please ensure the new password is documented for future reference. If the changed password is lost the RF Touch will need to be returned to the manufacturer for unlocking.

Fig. 9

Fig. 10

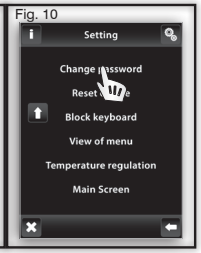


Fig. 11

Fig. 12

Reset Device

To reset the device to factory defaults enter '1234' (Fig. 14). This password cannot be changed. Confirming the reset (Fig. 15) will return the RF Touch unit to out of the box factory settings, removing all information previously programmed and also force a screen calibration.

Fig. 13

Fig. 14

Fig. 15

Settings - Block Keyboard And View Of Menu

Block Keyboard

Helps prevent accidental or unwanted control of the RF Touch (Fig. 2). After activation (Fig. 3), the unit will go in to lock mode after 10 seconds (Fig. 4). To unlock press the lock icon twice (Fig. 5).

Fig. 1

Fig. 2

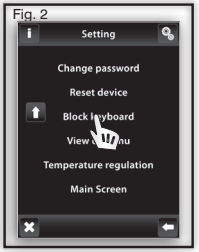


Fig. 3

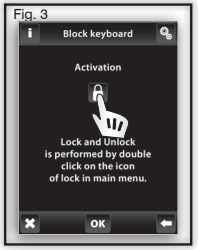


Fig. 4

Fig. 5

View Of Menu

The Main Menu list can be set so only those sections that you want to see are shown. (e.g. only Dimming, Switching and Detectors (Fig. 6 & 7). If all sections are de-selected with ✖, you will only see the list of location / circuit names of the receivers without its function (Fig. 8), this view is useful only if up to 6 receivers are programmed.

Fig. 6

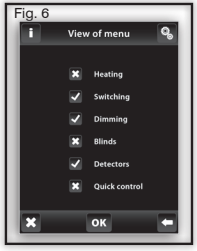


Fig. 7

Fig. 8

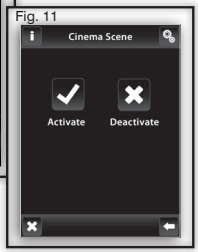
Main Screen

Enables personalization of the three sections of the display banner at the bottom of the Home Screen (Fig. 9 & 10). Left (1st choice), middle (2nd choice) and right (3rd choice) can be used to set the most common controlled devices or scenes directly from the home screen banner as short links.

Fig. 9

Fig. 10

Fig. 11



RF Touch Unit Warnings

Warning is displayed in case of incorrect or incomplete entry.

Warning	Procedure
Up to 40 rooms may be defined.	No more than 40 device names may be entered
Saving failed.	Repeat entry
Delete failed.	Repeat entry
No unit allocated.	Allocate (assign) the requested receiver
Two time programmes overlap within a single day.	Check time settings and enter new settings ensuring they do not overlap
No time programme available within a single day.	No other programme can be entered
No day selected.	Select the required day and enter new time settings
Switch on time may not exceed the switch off time.	Enter new settings
Unit already allocated to the room. Select another room.	Only one receiver can be allocated to one name of device (outside Quick Control)
This room has already been defined in the group.	Enter a new name
The address has already been selected in the unit list. Choose another address.	Enter correct address information
The address information must be complete.	Enter correct information
Up to 40 units may be defined.	No more than 40 units may be entered
The switch on date must be different from the switch off date.	Enter new settings
The switch on date must not exceed the switch off date.	Enter new settings

Warning is displayed in case of incorrect or incomplete entry.

Warning	Procedure
All 5 programmes are engaged.	No other programme can be entered
No unit allocated to the room.	Allocate receiver
This group has already been allocated.	Enter new settings
Display incomplete - control impossible.	Calibrate the device (disconnect the power supply, after reconnecting hold the logo RF Touch, finish the calibration by touching twice the cross signs that appear in each corner of the screen)
EPROM memory error!	Contact the manufacturer
RTC circuit error!	Contact the manufacturer
AT45 circuit error!	Contact the manufacturer

Have you lost the password?	Please ask the manufacturer for information about further steps
Battery icon appears on the main screen	See page 19

General Information

With consideration to the transmission of the RF signal, ensure that RF components are suitably located in the building where the device is to be installed. The Click Smart system must only be installed in indoor areas. The device has not been designed for outdoor use or use in moist environment, it must not be installed in metal distribution boxes and plastic distribution boxes with metal doors as this would prevent the transmission of the radio frequency signal. Click Smart is not recommended for the control of devices providing vital life functions or for the control of at risk devices such as pumps, electrical heaters without heat regulators, lifts, pulleys etc. - radio frequency transmission could be hampered with an obstacle, interfered with, the transmitter battery may become depleted etc. thus disabling the remote control. Not suitable for use in an industrial environment.
Do not expose to extreme temperature changes. In case of extreme temperature changes allow approx. 2 hours prior to installation for the RF Touch to adjust to the temperature of the installation location. This will prevent condensation of moisture in the device and the occurrence of a potential short circuit.
Keep flammable materials away from the device.
The graphic indication of the contact / device status (red/green LED) is only for information and may be influenced by the amount of processed information or the combination of more RF Touch and RF Pilot control units.

Notes

CLICKsmart

Scolmore GROUP

Scolmore International Ltd,
Scolmore Park, Landsberg,
Lichfield Road Industrial Estate,
Tamworth, Staffordshire,
B79 7XB

Web: click-smart.com
Tel: +44 (0) 1827 63454
Fax: +44 (0) 1827 63362
Email: sales@scolmore.com

CLICK® Litehouse

18 Corrig Road,
Sandyford Industrial Estate,
Dublin 18,
Ireland
D18 WV79

Web: clicklitehouse.ie
Tel: +353 (1) 2811 122
Fax: +353 (1) 2811 224
Email: sales@clicklitehouse.ie

V2.20