



# VITM4-ATMOD

## RF VITM4 switching module

### Overview



Fig 1

The VITM4-ATMOD is a wireless controller with a relay output capable of switching incandescent, fluorescent and compact fluorescent lighting when connected to Vitesse Modular Switching Modules (refer to the user guide for the VITM4-S and VITM4-E for installation and wiring).

The output comprises a mains voltage relay capable of simple on/off switching.

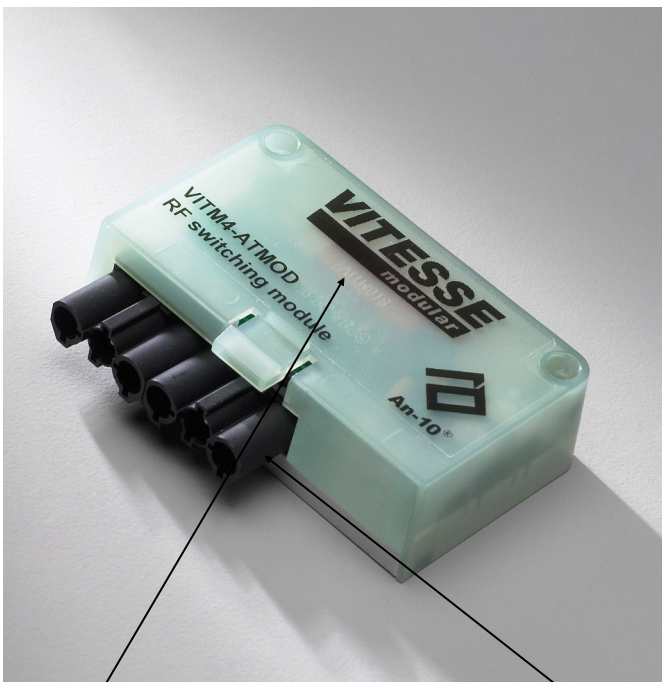
The unit also includes stored scenes for versatile manual control of lighting levels.

This device is integrated with other devices as part of an **An-10** lighting control system. The built-in RF transceiver allows wireless communication with all other **An-10** compatible products, e.g. the AT-BB-IN Input Unit, useful for push-button scene selection and absence detection.

All functionality is fully programmable.

### Features

Fig 2: Front features (VITM4-ATMOD shown)



Clear casing  
which covers.....  
IR Receiver  
Status LEDs

Vitesse Modular  
Connector

#### IR Receiver

Receives control and programming commands from an IR (infrared) handset (Fig.2).

#### Status LEDs

These flash **Red** and/or **Green** to indicate the following:

<i>Valid setting received</i>	
<i>Invalid setting received</i>	
<i>Software reset received</i>	
<i>Factory reset received</i>	

#### Vitesse Modular Connector

Connector function.

- **Power Input & Switched Output (Channel 1)**  
Used to connect mains power to the unit and to connect a switched load.

## Installation

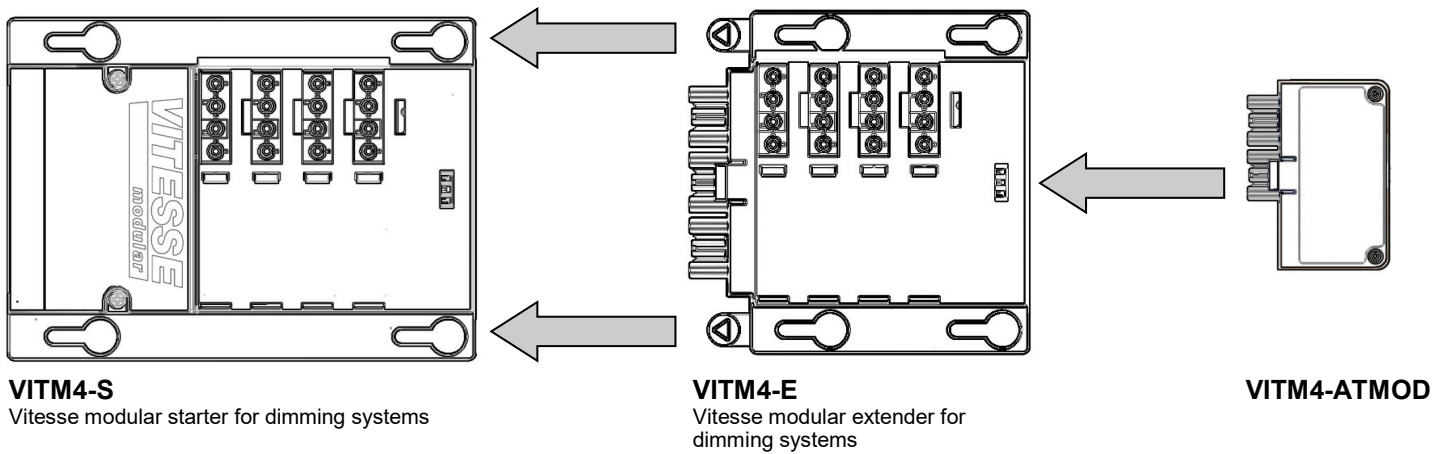


Fig 3: Vitesse Modular + An-10 component

Push VITM4-ATMOD into either the end of a VITM4-S or a VITM4-E as shown in Fig 4 below.

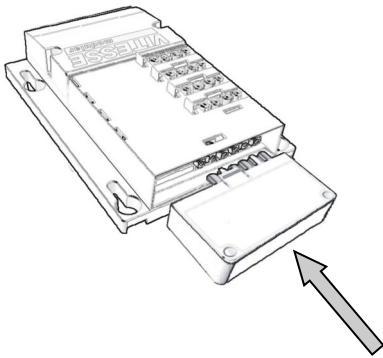


Fig 4: VITM4-ATMOD installation

### **IMPORTANT NOTICE!**

This device should be installed by a qualified electrician in accordance with the latest edition of the IEE Wiring Regulations and any applicable Building Regulations.

## Fault finding

### What if the load does not turn ON?

- Check that the live supply to the Vitesse Modular VITM4-S.
- Check that the load is functioning by bypassing the Controller (e.g. link terminals **L** and **SW/L** on the Vitesse Modular VITM4-S).
- Check that the unit is correctly addressed, see 'Step 1: Set channel addresses and channel load type' on page 3.

The functionality of the VITM4-ATMOD is controlled by a number of parameters which can be changed or programmed by any of the following devices:

- **UHS4** Infrared Handset
- **UNLCDHS** Infrared Handset (with LCD)

For most basic programming operations the UHS4 handset is recommended and the following procedures are based on using this device.

Point the handset at the Controller and send the required programming commands to the unit as shown in Steps 1, 2 and 3.

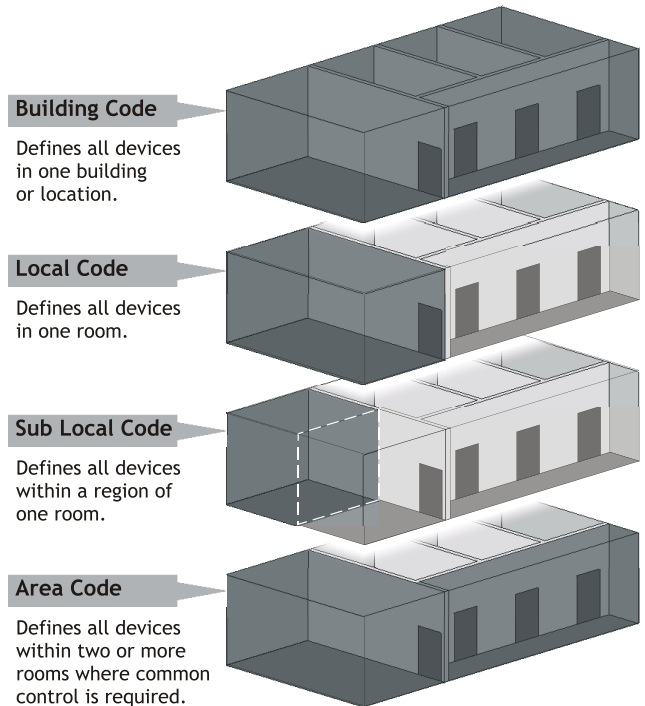
Valid commands will be indicated by a green LED flash. See page 1 for details of other LED responses.

## Step 1: Set channel addresses and channel load type

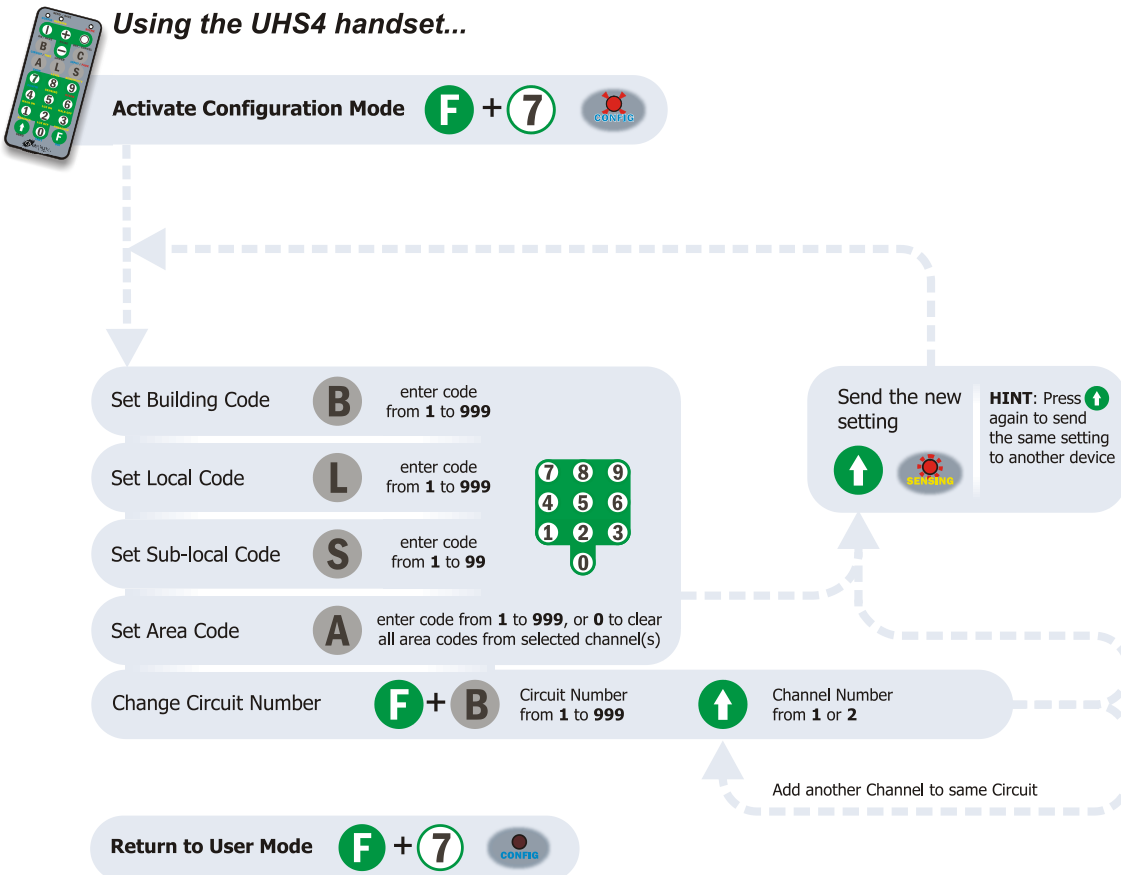
The Controller has one switched output channel.

To relate the function of different channels it is necessary to set the addresses correctly. For example, a scene select message sent from a device with a Local Code of 1 will only be actioned by devices that also have a Local Code of 1.

The output channel also has a Circuit number. This allows different physical channels to be linked and controlled as a single Circuit.



### Using the UHS4 handset...



# Basic programming

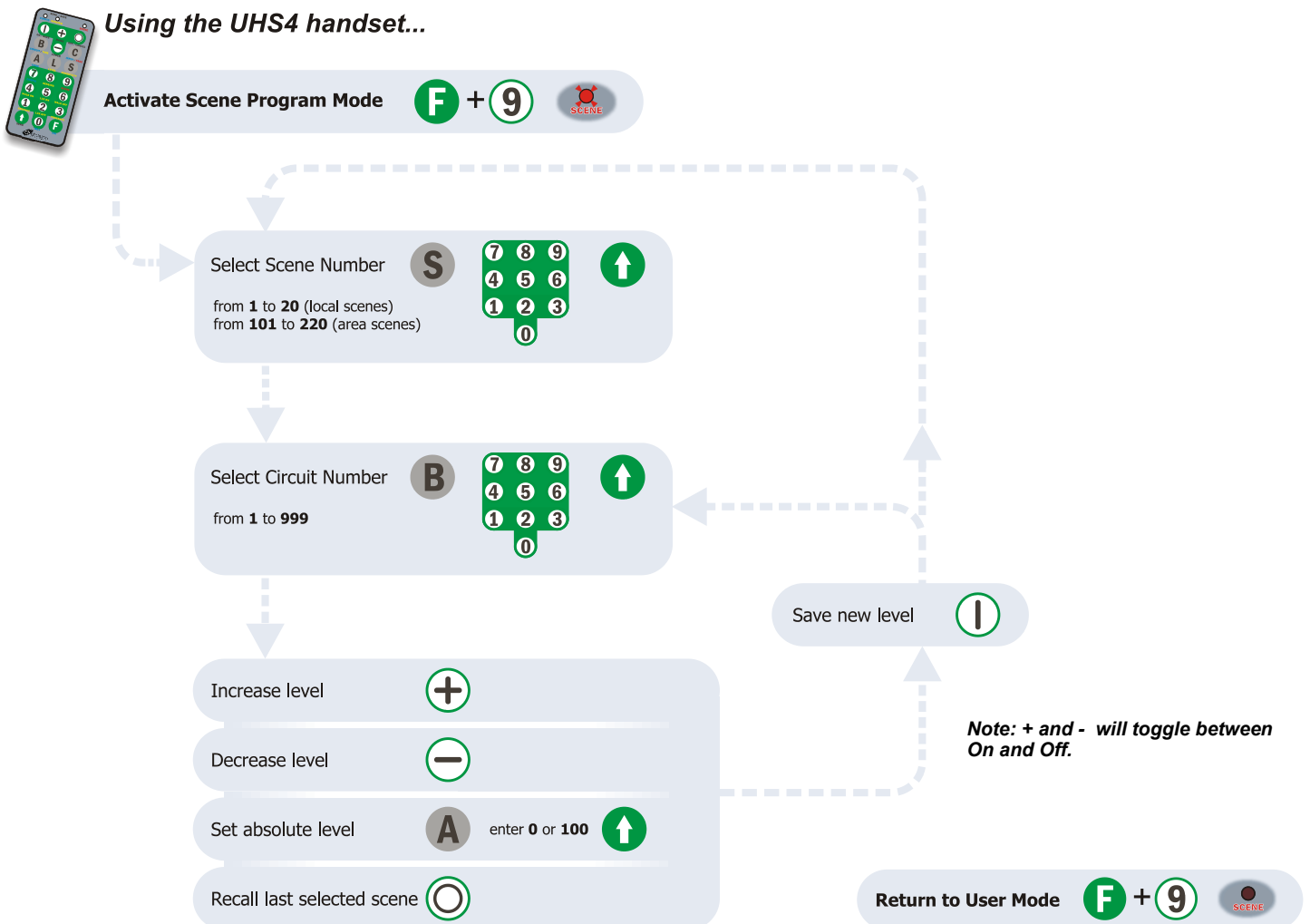
## Step 3: Re-program scenes

The VITM4-ATMOD has capacity to store 20 Local Scenes and 120 Area Scenes. By default all Scenes are pre-programmed with the following channel levels, but these can be changed as required:

Local Scenes									
	1	2	3	4	5	6	...	19	20
Ch1	on	on	on	on	on	on	...	on	off
Area Scenes									
	101	102	103	104	105	106	...	119	220
Ch1	on	on	on	on	on	on	...	on	off

NOTE: Local Scene 20 and Area Scene 120 are designated 'off' scenes within a system and should normally be programmed with all channels off or at zero.

Scenes can be recalled by using an IR Handset or by a switch/button plate via an AT-BB-IN Input Unit.



## Advanced programming

The tables on pages 12 to 15 give a summary of all programmable parameters for the VITM4-ATMOD Controller.

Parameter Name	Default Value	Range / Options	Description	Programming Devices	
				UHS4	UNLCDHS
<i>For Device</i>					
Product ID	<i>Automatically assigned by the device</i>	1 to 999	A number used to uniquely identify each device within a range of devices that are set to the same Local Code.	✘	✔
Building Code	1	1 to 999	A number shared by all devices that belong to the same building or system.	✔	✔
Lock	0	Enable (1) or disable (0)	Lock the An-10 network. Prevents more devices joining the network.	✘	✔
<i>For Channel 1 (Switched Output)</i>					
Local Code	1	1 to 999	A number corresponding to the Local Code of all devices to be controlled by an associated input channel.	✔	✔
Sub Local Code(s)	<i>Not set</i>	1 to 99 0 to clear	A number corresponding to the Sub Local Code of all devices to be controlled by an associated input channel. Up to 20 Sub Local Codes can be set for Channel 1 and 2, e.g. 15 on Ch.1 and 5 on Ch.2, etc.	✔	✔
Area Code(s)	999	1 to 999 0 to clear	A number corresponding to the Area Code of all devices to be controlled by an associated input channel. Up to 32 Area Codes can be set for Channel 1 and 2, e.g. up to 16 per channel, or 20 on Ch.1 and 12 on Ch.2, etc.	✔	✔
Circuit Number	1	1 to 999	Sets the circuit number for this channel.	✔	✔
Output State	<i>Set by Scene</i>	0-100% 0=off	The current output state of the channel, for example as set by a Scene Select command.	✔	✔
Raise from off	1	Enable (1) or disable (0)	Enables raise from off feature.	✘	✔
Lower from off	1	Enable (1) or disable (0)	Enables lower from off feature.	✘	✔
Emergency output	0	Enable (1) or disable (0)	Enabling this sets the output to a 'switched permanent live' mode for emergency ballasts.	✘	✔

# Advanced programming

Parameter Name	Default Value	Range / Options	Description	Programming Devices	
				UHS4	UNLCDHS
Local On Scene	1	1 to 20	The local scene request sent to all devices with the Local Code specified .	✘	✓
Area On Scene	101	101 to 220	The area scene request sent to all devices with the Area Code(s) specified.  <i>NOTE: The Area On Scene is ignored unless one or more Area Codes are set for the corresponding input channel and they match the Area Codes set in any output channel.</i>	✘	✓
Local Off Scene	20	1 to 20		✘	✓
Area Off Scene	220	1 to 20		✘	✓

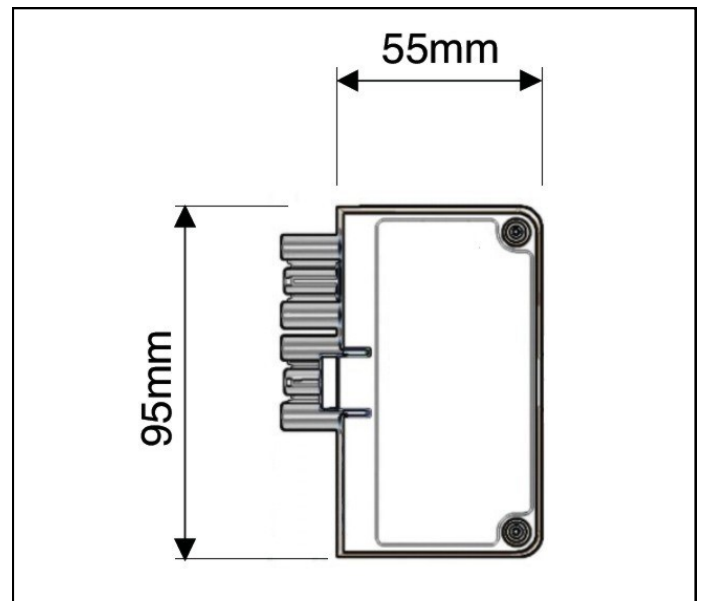
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## Technical data

Dimensions	See diagrams opposite
Weight	0.1kg
Supply Voltage	230VAC +/- 10%
Frequency	50Hz
Maximum Load	<b>Channel 1 (switching):</b> 10A of lighting and/or ventilation including incandescent, fluorescent, compact fluorescent, low voltage (by switching the primary of transformer).
Terminal Capacity	Refer to the user guide for the VITM4-S and VITM4-E for installation and wiring.
Receiver Class	2

Order code	Region	Radio frequency	Compliance
blank	European Union	868MHz	RED-2014/53/EU LVD-2014/35/EU
-A2	Australia & New Zealand	915MHz	AS/NZS 4268:2008

For further compliance information visit [www.cpelectronics.co.uk/compliance](http://www.cpelectronics.co.uk/compliance)



Transmitter Duty Cycle	<10% on g3 band (default band) <0.1% on g2 band <1% on g1 band
Range	The maximum RF range between An-10 devices is 100m in free air and up to 30m indoors. However the materials used within a building will vary and this will impact upon the RF range. In reality the nature of how the An-10's hybrid-mesh works means that in most scenarios the individual range of an An-10 product will not be important.
Temperature	0°C to 35°C
Humidity	5 to 95% non-condensing
Material (casing)	Flame retardant polycarbonate

## Part numbers

EBDSPIR-AT-PRM	RF Ceiling PIR presence detector – switched
EBDSPIR-AT-AD	RF Ceiling PIR presence detector – 1-10V dimming
EBDSPIR-AT-DD	RF Ceiling PIR presence detector – DALI/DSI dimming
AT-BB-IN	RF Input unit
AT-SL-R	RF relay controller
AT-SL-R-SA	RF relay controller (standalone)
AT-SL-ADR	RF 1-10V + relay controller
AT-SL-ADR-SA	RF 1-10V + relay controller (standalone)
AT-SL-DDR	RF DALI/DSI + relay controller
AT-SL-DDR-SA	RF DALI/DSI + relay controller (standalone)
VITM6-ATMOD-AD	RF VITM6 1-10V module
VITM6-ATMOD-DD	RF VITM6 DALI/DSI module
UHS4	Programming IR handset
UNLCDHS	Universal LCD IR handset



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