

Product Guide



VITM6-ATMOD-DD

RF VITM6 DALI/DSI module

Overview

Features



The VITM6-ATMOD-DD is a wireless controller with two output channels capable of controlling incandescent, fluorescent and compact fluorescent lighting when connected to Vitesse Modular Dimming Modules (refer to the user guide for the VITM6-S and VITM6-E for installation and wiring).

Output Channel 1 comprises a mains voltage relay capable of simple on/off switching, while Output Channel 2 provides dimmable control of either DSI or DALI type ballasts.

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.

Fig 1

Fig 2: Front features (VITM6-ATMOD-DD 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:

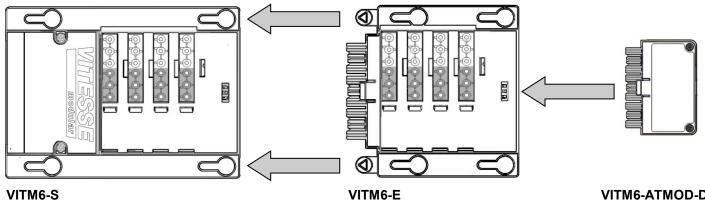
Valid setting received	- Č
Invalid setting received	<u>****</u> *
Software reset received	`````````````````````````````````````
Factory reset received	<u>*****</u> *

Vitesse Modular Connector

This connector comprises of two functions.

- **Power Input & Switched Output** (Channel 1) Used to connect mains power to the unit and to connect a switched load.
- **Dimmable Control Output** (Channel 2) Used to connect DSI/DALI controllable ballasts and transformers for dimmable loads.

Installation



Vitesse modular starter for dimming systems

VITM6-E Vitesse modular extender for dimming systems

VITM6-ATMOD-DD

Fig 3: Vitesse Modular + An-10 component

Push VITM6-ATMOD-DD into either the end of a VITM6-S or a VITM6-E as shown in Fig 4 below.

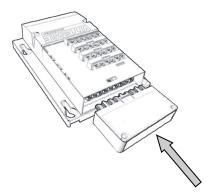


Fig 4: VITM6-ATMOD-DD installation

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 VITM6-S.
- Check that the load is functioning by bypassing the Controller (e.g. link terminals L and SW/L on the Vitesse Modular VITM6-S).
- Check that the unit is correctly addressed, see 'Step 1: Set channel addresses and channel load type' on page 3. •

Basic programming

The functionality of the VITM6-ATMOD-DD 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.

Step 1: Set channel addresses and channel load type

The Controller has two output channels:

- Channel 1 Switched Output •
- Channel 2 Dimmable Output

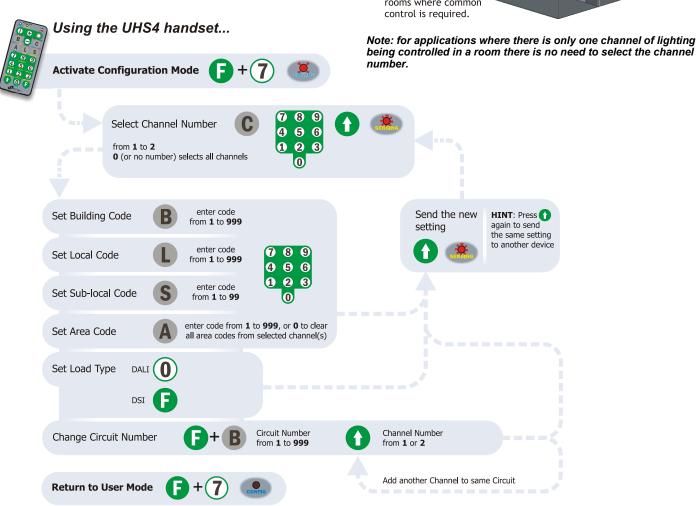
To relate the function of different channels it is necessary to set the addresses correctly. For example, a scene select message sent from a device with a Local Code of 1 will only be actioned by devices that also have a Local Code of 1.

To program the settings for a specific channel on the Controller you must specify the appropriate channel number (i.e.1 to 2) using the programming device.

If no channel number (or channel 0) is specified, all channels will be set to the same address.

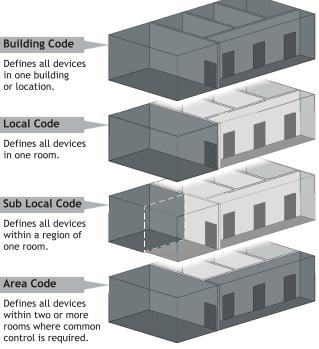
The output channels also have Circuit numbers. This allows different physical channels to be linked and controlled as a single Circuit.

Channel 2 (the dimmable output) can control either DSI or DALI type ballasts. This is called the Load Type and is set to DSI by default.



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.



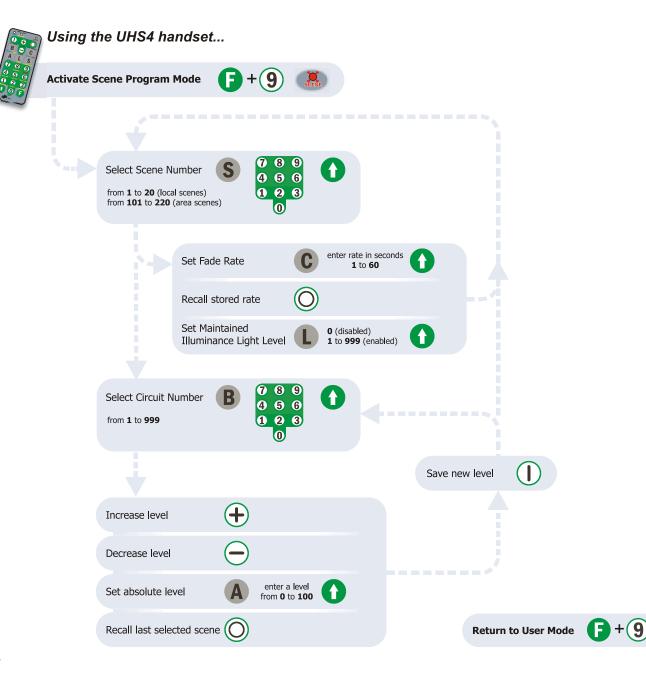
Step 3: Re-program scenes

The VITM6-ATMOD-DD 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	Local Scenes							
	1	2	3	4	5	6		19	20
Ch1	on	on	on	on	on	on		on	off
Ch2	100%	75%	50%	25%	100%	75%		50%	0%
	Area Scenes								
	101	102	103	104	105	106		119	220
Ch1	on	on	on	on	on	on		on	off
Ch2	100%	75%	50%	25%	100%	75%		50%	0%

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.

Each Scene has a Fade Rate, which is the time taken for the existing output channel levels to fade to the levels defined in the selected Scene. By default this is set to 3 seconds for all Scenes.



Advanced programming

The tables on pages 12 to 15 give a summary of all programmable parameters for the VITM6-ATMOD-DD Controller.

Parameter Name	Default Value	Range / Options	Description	Programming Devices	
				UHS4	UNLCDHS
For Device					
Product ID	Automatically assigned by the device	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.	\checkmark	\checkmark
Lock	0	Enable (1) or disable (0)	Lock the An-10 network. Prevents more devices joining the network.	×	\checkmark
For Channel 1 (Sw	itched Output)				
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)	Not set	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.	\checkmark	\checkmark
Output State	Set by Scene	0-100% 0=off	The current output state of the channel, for example as set by a Scene Select command.	\checkmark	\checkmark
Raise from off	1	Enable (1) or disable (0)	Enables raise from off feature.	×	\checkmark
Lower from off	1	Enable (1) or disable (0)	Enables lower from off feature.	×	\checkmark
Emergency output	0	Enable (1) or disable (0)	Enabling this sets the output to a 'switched permanent live' mode for emergency ballasts.	×	\checkmark
For Channel 2 (Din	nmed Output)	·		•	
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)	Not set	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	2	1 to 999	Sets the circuit number for this channel.	\checkmark	\checkmark
Load Type	DALI	DSI or DALI	Sets the ballast control protocol to be used by the output channel.	\checkmark	\checkmark
Output Level	Set by Scene	0 to 100 %	The current output level of the channel, for example as set by a Scene Select command.	\checkmark	\checkmark
Max Value	100%	0 to 100%	Maximum dimming output level.	×	\checkmark
Min Value	1%	0 to 100%	Minimum dimming output level.	×	\checkmark
Burn-in	0	0 (disabled) or 1 to 255 hours	Determines how long the output will be at 100% so that lamps 'burn -in'. The 'burn-in' time is not affected by power supply interruptions.	×	\checkmark
Raise from off	1	Enable (1) or disable (0)	Enables raise from off feature.	×	\checkmark
Lower from off	1	Enable (1) or disable (0)	Enables lower from off feature.	×	\checkmark

Advanced programming

Parameter Name	Default Value	Range / Options	Description		Programming Devices	
					UHS4	UNLCDHS
Local On Scene Fade Rate	1 1 second	1 to 20 0 to 255*	The local sce specified .	The local scene request sent to all devices with the Local Code specified .		\checkmark
Area On Scene Fade Rate	101 1 second	101 to 220 0 to 255*	Code(s) spec	ene request sent to all devices with the Area cified. ea On Scene is ignored unless one or more Area Codes are set for ding input channel and they match the Area Codes set in any output	×	~
Local Off Scene Fade Rate	20 1 second	1 to 20 0 to 255*	Time table Value 0 1 to 59	Fade rate time No fade 1 to 59 seconds, in 1 second increments	×	~
Area Off Scene Fade Rate	220 1 second	1 to 20 0 to 255*	60 to 177 178 to 254 255	1 to 20 hours, in 15 minute increments 1 to 20 hours, in 15 minute increments Infinite fade	×	✓

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Technical data

Dimensions
Weight
Supply Voltage
Frequency
Maximum Load

See diagrams opposite 0.1kg 230VAC +/- 10% 50Hz *Channel 1 (switching):* 10A of lighting and/or ventilation including incandescent, fluorescent, compact fluorescent, low voltage (by switching the primary of transformer). *Channel 2 (dimming):* Maximum number of DSI or DALI ballasts is 10 unless the relay is disabled then it is 20. Refer to #WD290 user guide for the VITM6-S and VITM6-E for inset lation and wining.

C E

Terminal Capacity

		installation ar	nd wiring.
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

Receiver Class	2
Transmitter Duty Cycle	
	<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

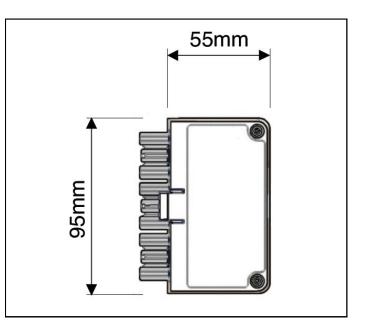
EBDSPIR-AT-PRM EBDSPIR-AT-AD EBDSPIR-AT-DD AT-BB-IN AT-SL-R AT-SL-R-SA AT-SL-ADR AT-SL-ADR AT-SL-DDR AT-SL-DDR AT-SL-DDR-SA VITM4-ATMOD VITM6-ATMOD-AD UHS4 UNLCDHS RF Ceiling PIR presence detector – switched RF Ceiling PIR presence detector – 1-10V dimming RF Ceiling PIR presence detector – DALI/DSI dimming RF Input unit RF Relay controller RF relay controller (standalone) RF 1-10V + relay controller RF 1-10V + relay controller RF DALI/DSI + relay controller RF DALI/DSI + relay controller RF DALI/DSI + relay controller RF Witching module RF VITM6 1-10V module Programming IR handset





Due to our policy of continual product improvement CP Electronics reserves the right to alter the specification of this product without prior notice.

Universal LCD IR handset



r art numbers

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