




HAI Omni-Bus Dimmer 900W Din Rail

Model 110A00-2

Installation Instructions and User's Guide



Specifications

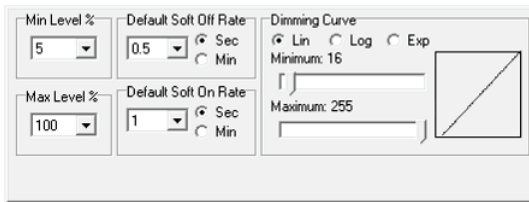
- Mains side supply voltage: 220-240V~ 50Hz
- Minimum load: 10W @ 230V~
- Maximum load: 4A (920W @ 230V~)
- Load types:
 -  220V Incandescent Lamps and 220V Halogen Lamps
 -  Low voltage electronic transformers
 -  Low voltage magnetic transformers
- Bus side supply voltage: 15-24VDC (via bus network cable)
- Bus side supply current: 20mA maximum
- Memory capacity (linked devices): 32
- Ambient Temperature: 0 – 40 °C (32 – 104 °F)
- Ingress Protection: IP20
- Dimensions: 70mm (width) x 58mm (height) x 86mm

Installation

- The dimmer unit should only be installed by a suitably qualified person
- This dimmer is not designed for use with fluorescent, compact fluorescent, non-dimmable electronic low voltage transformers, ceiling fans or any appliances
- Dimmer units should be installed in a suitable distribution box fitted with 35mm din rail
- Ensure that the mains power has been switched off before commencing installation
- All mains wiring should be done in accordance with local authority wiring regulations
- Leave a space of 1 din rail module (approx. 17mm) between dimmer units
- A safe isolation distance should be kept between all mains wiring and the Bus network cable
- Always isolate the dimmer from the mains supply before performing a Megger test on the electrical installation
- See the *HAI Omni-Bus Network Installation Guide* for more information on the Bus network wiring

Setup

- To link an Omni-Bus Wall Switch button to the dimmer without using the HAI OMNIBUS installation software:
 - Enter program mode by pressing and holding the dimmer pushbutton until the LED starts flashing amber
 - Press and hold the wall switch button until the wall switch LED flashes at a faster rate
 - Press and release the dimmer pushbutton to exit program mode
- Setup from OMNIBUS installation software:
 - Enter the dimmer unit setup by double clicking on the device in the device list after a LIST DEVICES
 - Use the **Setup Tab** to change the following device parameters:



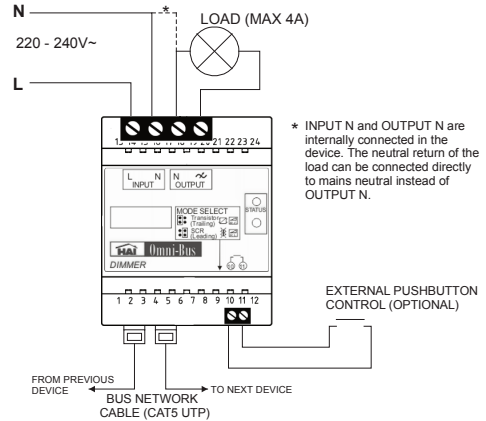
- **Min Level:** Set minimum light level
- **Max Level:** Set maximum light level
- **Default Soft Off/On Rate:** Set the rate at which the light will switch on
- **Dimming Curve:** Set the dimming curve and minimum/maximum offset according to the load type connected to the dimmer output (leave on default settings for incandescent and halogen lamps)

- Use the **Links Tab** to link input devices (wall switches and remote controls) to the dimmer device

Operation

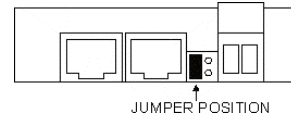
- Press and release the unit pushbutton or external pushbutton to toggle output
- Press and hold pushbutton to dim light up or down
- Operation from an Omni-Bus Wall Switch:
 - Press and release wall switch button to toggle output
 - Press and hold wall switch button to dim light up or down
- The dimmer will automatically shut down (output turned off) when a fault condition is detected (see *Status LED*)

Wiring Diagram

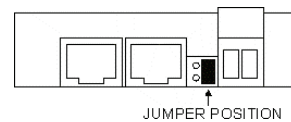


Mode Selection

Trailing Edge (220V Incandescent/Halogen Lamps or Low Voltage Electronic Transformers):



Leading Edge (220V Incandescent/Halogen Lamps or Low Voltage Magnetic Transformers):



Status LED

- **Constant Green:** Output switched OFF
- **Constant Red:** Output switched ON
- **Flashing red:** Indicates fault condition
 - 1 Flash: 220-240V~ supply not present
 - 2 Flashes: Load short circuit condition detected
 - 3 Flashes: Overload
 - 4 Flashes: Incompatible load type
 - 5 Flashes: Over temperature error
 - 6 Flashes: Zero crossing error
 - 7 Flashes: Supply overvoltage
 - 8 Flashes: Load overvoltage detected (Incompatible load type or incorrect mode)
- **Flashing amber:** Program mode active