FutureNow FNIP-RGB/010
OVERVIEW

4 Channel RGB(W) LED Dimmer

/Surface and DIN Rail mountable/

Figure 1. The FNIP-RGB/010 LED dimmer module

The FNIP-RGB/010 is used for switching and dimming low voltage LED strips using constant voltage PWM method. There is also a 0-10V analogue output for each channel that works alongside the PWM output.

The outputs can be controlled via the local inputs and through the network using TCP/IP commands or the built-in web interface.

The local inputs give the customer the ability of using the system even before a central controller is installed or the network is built, offering stand-alone operation. The home owner can decide later on what controller or system to use.

This also improves reliability since the operation of the outputs do not rely on any other device. If network or programming errors should occur, the lights still remain controllable.

The inputs can also be used as independent digital inputs for remote monitoring various sensors, such as water leakage sensor or door contacts, or even an output of a security system (armed/disarmed/in alarm).

The local inputs are usually connected to momentary wall switches and work similarly to traditional light switches.

The inputs can also be used to recall pre-defined scenes. See the **Scenes** section for more details.

The FNIP-RGB/010 connects to the network via an RJ45 Ethernet connector.

The outputs are usable to drive the following LED light sources:

- Single channel LED strip by using one channel PWM output
- **CCT*** LED strip by using two channels of PWM output
  1&2, or 3&4
- RGB LED strips by using three channels
  1: R, 2: G, 3: B
- RGBW LED strips using four channels
- 1: R, 2: G, 3: B, 4: W

* **CCT** stands for Correlated Color Temperature

Main features

- Ideal for dimming single-color or CCT or RGB or RGBW LED strips
- 4 x PWM outputs for switching and dimming 4 single-color, 2 CCT, 1 RGB or 1 RGBW LEDs or other low voltage PWM dimmable loads
- 4 x 0-10V outputs working alongside the PWM outputs
- 4 x optically isolated multi-purpose inputs for manual control or connecting digital sensors
- Toggling the outputs, recalling basic colors and choosing any color can be done via the manual inputs
- 255 dim levels
- 24-bit color depth
- Color picker to set output color easily
- Color scroll with adjustable speed
- Preset dim level – outputs will go to that level when turned on
- Dim level memory – the outputs remember the last dim level. When next turned on, lights will return to the last remembered value
- Adjustable minimum and maximum dim levels
- Adjustable ramp rates
- Standard DIN rail mount, or surface mount with flaps (included)

Enhanced Connectivity

- New TCP/IP interface offers remote control and advanced management
- Built-in web server for configuration, control and monitoring
- Remote control and monitoring from network enabled smart phones, tablets
- Multiple users with different user rights
- TCP communication with simple ASCII commands
- Automatic event reports about status changes of inputs and outputs
- Firmware upgrade via LAN

Industry-Wide Interoperability

- Integration with home controllers from most major vendors (Control4, AMX etc.)
- Compatible with any momentary contact switch