

Futronix Hx Dimmer

Unobtrusive yet powerful, the remotely-mounted **Futronix Hx Dimmer** module is the ideal lighting controller for small-to-medium sized residences, condominium units, hotel guestrooms and suites, and small offices and conference rooms.

Quality **smaller residences** benefit from multi-point, multi channel switching, combined with the sophisticated lighting control and networking options typically offered only by much larger centralized dimming systems. In a typical smaller residence, owners appreciate the simplicity and convenience of centralized one-touch control of lighting in several rooms.



With a master switchpanel located by the front entrance, owners can switch off selected lighting and switch on security lighting when leaving home, or set a 'welcome' scene for evenings.

For many **condominium units**, open-plan design means that a single large area may be divided into zones for dining, relaxation and entertainment – even adjacent open kitchen/snack bar areas. Each of these functions requires different types and levels of lighting – and possibly other system automation as well. Occupants will normally spend a good deal of time getting up – again and again - to alter light and other system settings from a number of inconveniently located switchpoints.



With the Hx Dimmer unit installed – featuring multi-point, multi-zone dimming and switching – all of this inconvenience is eliminated.

The Hx Dimmer is also designed for smaller **offices** and **conference** rooms, with the dimmer unit concealed in the ceiling or electrical cupboard and the capability to control compact fluorescent lamps and operate curtains, drapes and A/V equipment.

Open-plan offices are typical these days, and the Hx Dimmer is the optimum solution where a centralized system with discrete lighting control over individual work areas is required.

The Hx Dimmer's 4 channels of dimming can be programmed to any level of brightness from 0 to 100%. Levels are automatically stored as one of 20 scenes per channel, with each scene creating a different 'look'. Selected lighting levels in twelve rooms or areas can be operated from Futronix Eclipse switch panels, and Hx Dimmer modules can be linked to provide multiple-channels of multi-zone lighting control.

For **hotels** of all sizes, the Hx Dimmer provides the ultimate in flexible guestroom lighting control. All lounge, bedroom and bathroom lighting for suites and guestrooms throughout a hotel can be controlled by Hx Dimmer units – either free-standing or networked to the BMS (Building Management System).

With its' unique combination of 4 output channels of scene dimming, 4 channels of relay switching, and an independent 4 channels of 0-10V FL fluorescent control, the Hx Dimmer has the versatility to control most automated devices common to hotel installations, including curtains and drapes, A/V systems, mirror demisters, and others. The Hx Dimmer can also control commonly used energy-saving non-dimming CF Compact FL lamps, ideal for hotel bathrooms.

In **spa resorts** – with individual bungalows around a central cluster of buildings – Hx Dimmer dimmers controlling lighting in individual bungalows can be linked to a Futronix **Reception Controller** located near the Reception desk, so that reception staff can prepare lighting, drapes, and other welcoming features before guests arrive at their bungalow.



Other applications for the Hx Dimmer unit include **warehouses** – which in most countries now require mandatory lighting/energy management systems – as well as **gas stations**, and other smaller **late-night businesses**.

Installation

The **Hx Dimmer** unit is specifically designed for concealed installation, drawing its power from the main distribution box via a rated breaker. Homes and hotels typically install control panels at both sides of beds, while the Hx Dimmer can be wall-mounted out of sight above the ceiling or in an electrical cupboard or void.



All connections on these modules are wired back to a central point, and networking connections have screw termination receptacles for easy installation in confined spaces.

Unlike conventional switching layouts – where once lights are installed no further changes are possible – the Hx Dimmer allows full reprogramming and mastering at any time. Contractors appreciate the flexibility of the system in terms of programming for ultimate user requirements, as all parameters are adjustable in software.

Wiring is simple and electrician-friendly, with all wiring daisy-chained back to a single point, including elegant control switchpanels located for maximum user convenience.

Operation

Localised user operation is from the elegant range of ultra-thin Futronix Eclipse wall-mounted screwless switch panels – featuring a display with IR receiver – which are individually addressable and have programmable group functions.

If home or hotel guestroom décor is changed, easily switched stylish and robust solid metal switch plates are also available in standard Futronix finishes, or custom switchplates can be ordered to complement the new décor.



Remote control

The remote control handset supplied with the Hx Dimmer provides convenient one-touch remote operation, and can easily program master raise and lower, fade rate and sleep timer duration. Hx Dimmer units also can be controlled by 3rd party Universal remote control devices (*ONE FOR ALL*, *Pronto*, etc.) and touch screens, via the industry standard IR interface.

Enhanced control options

For enhanced centralised or in-suite control of Hx Dimmer units networked together, Hx Dimmer modules can connect directly to the **Home-Icon** TouchScreen controller, or to a PC or laptop via an RS232-485 converter.

The Futronix **Home-Icon** TouchScreen controller can program lighting scenes, raise and lower lighting circuit levels, and save system changes. A full-color TFT touch-screen display – with graphics representing building layout, system components, performance circuit levels & other programmable settings in a clear and logical format – provides intuitive user-friendly control.



Timer

The Hx Dimmer's in-built 7/24 timer can be programmed to select up to 70 different events each week (10 per day). For bedrooms, the Hx Dimmer features a 2-hour sleep delay timer, or the timer can be set to fade up bedroom lights in the morning. Timer uses range from 'welcome' scenes - which automatically switch on selected room lights for your return - to selecting mood settings.

Zones

With the Hx Dimmer you can set up to 20 scenes in each of 12 zones or rooms. For more extensive systems with greater flexibility, multiple Hx's can be connected together to provide up to 36 channels of lighting.

Other

The Hx Dimmer also incorporates hard switching inputs from a normal light switch and occupancy detection inputs.

Quality

The Hx Dimmer's robust construction, generously rated heatsinks and very high-level short circuit protection mean it can be installed remotely with confidence. The Hx Dimmer's wall-mounted all-steel back-box is designed for easy mounting.

Hx Dimmer features:

- 4 channel scene dimmer
- 4 channels of relay switching
- 4 channels of 1-10v fluorescent ballast dimming control
- control up to 12 circuits (channels)
- multi-zone (can control up to 12 rooms independently)
- 20 programmable scenes per room/ area
- infra-red remote control
- built-in LED information display and infra-red receiver
- variable fade rates from 0.5 seconds to 2 hours (to gradually turn lights on/off)
- temporary circuit adjustment without save
- master raise and lower
- exit delay
- sleep timer
- built-in 24-hr 7-day event timer (battery-backed)
- security settings
- permanent memory (in the event of a power blackout you don't lose pre-set scenes or need to re-program your dimmer)
- hard switching inputs from normal light switch
- occupancy detector inputs
- card & address system
- designed for electrician-friendly installation.

Specifications

- 4 channels @ 600W - Max 2.0kW
- No minimum load on any channel
- Controls: tungsten, halogen, low voltage, neon and fluorescent (HF & CF).

<i>Hx Dimmer - ELECTRICAL SPECIFICATION</i>	
Mains supply input voltage & frequency	220-240V ac 50Hz 208-270V ac 60Hz 120V ac 60Hz
Mains supply input current	16A (Max) incoming supply
Number of dimming channels	12 channels per Hx
Number of Hx channel systems (networked)	with interconnected Hx units = 36 channels
Zones	12 zones (areas/rooms)
Dimming output (max)	600W per channel (max)
Total Dimmer Load (max)	2 kW across all 12 channels (max)
Dimming output (1-10V)	4 channels (1-10V) fluorescent regulation ballasts
Switching output (max)	4 channels of relay switching
Load type	tungsten, mains halogen, neon & fluorescent (HF), low voltage (magnetic & leading edge dimmable transformers) CF compact fluorescent
Network connection	12V four core non twisted pair
Protection	fuses 8 x 8A
Approvals	CE