

ENVIRON

PRODUCT CATALOGUE · LIGHTING CONTROL AND DIMMING

TAKE CONTROL OF YOUR LIGHTING

ENVIRON DIMS

FLUORESCENT

TUNGSTEN

LOW VOLTAGE

NEON

COLD CATHODE

ENVIRON CONTROLS

PROGRAMMABLE

AUTOMATIC PRESET

MANUAL

TIME AND EVENT

PHOTOCELL

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Strand Commercial Lighting

Strand Commercial Lighting – Product Reference Guide

Dimmers

Strand Lighting's Environ range of professional dimmers includes everything from small self-contained unit dimmers to large programmable dimming and lighting control systems. Dimmers should be selected to match the size and type of lighting load. Maximum load ratings are quoted in amps. Nominal wattage ratings are only an approximate guide to actual fluorescent loads and in the case of transformer fed loads, a derating factor must be applied.

Universal dimmers can be used for tungsten, transformer-fed or fluorescent lighting; other dimmers are for specific load types, i.e. tungsten or fluorescent.

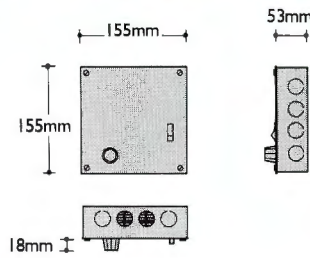
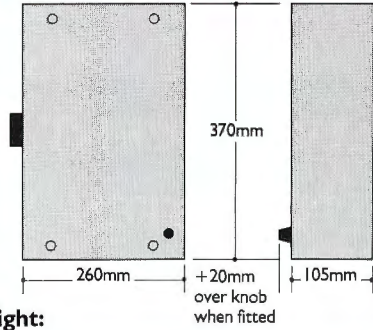
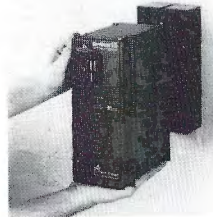
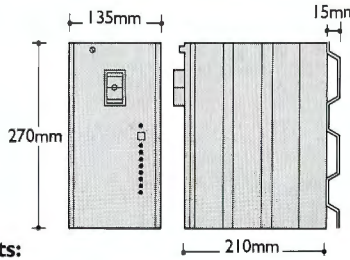
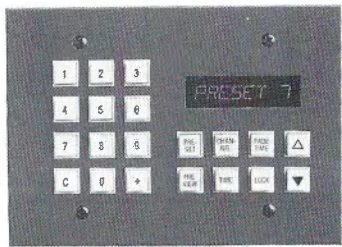
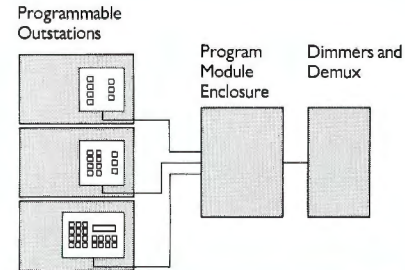
Unit dimmers are supplied equipped for local manual control and can, if required, be placed within the area under control or alternatively, used with optional remote outstations.

Plug-in modular dimmers offer increased flexibility and can be for either manual or automatic (preset) operation when used with appropriate remote outstations. Dimmers will normally be sited in a suitable dry ventilated space or service area – located with electrical distribution equipment is often convenient – and controlled by outstations located in the room or area under control.

For projects with a large number of controlled circuits, dimmer modules can be built up on a rail system or alternatively, supplied in custom configured racks. Due allowance for adequate space provision is required at the planning stage.

This chart gives a summary guide to Environ dimmers. Full technical specification is given in product data sheets.

All dimmers are suitable for 220/240V, 50Hz supplies.

Product	Dimensions	Rating	Type	Control	Item No	Outstation Options				Outline Product Specification
Environ Mini Universal Dimmer 	 Weight: 1.4kg	5A	Universal	Manual	09 750 05	Rotary or Linear	Take Control	Up/Stop/Down	Preset Buttons	The Environ Mini Universal Dimmer is a compact, professional quality unit dimmer, rated at 5 Amps and suitable for tungsten, fluorescent or transformer-fed loads. Provided with an ON/OFF switch and a local rotary control or for use with optional manual remote outstations.
Environ Economy Dimmers 	 Weight: 4.75kg	2x6A (2x1.5kW) 16A (4kW) 16A	Tungsten Tungsten Fluorescent	Manual Manual or Up/Stop/Down or 1 Preset	09 750 06 09 751 01 09 752 07	1 PER CHANNEL 5 MAX PER CHANNEL 6 MAX 6 MAX	5 MAX PER CHANNEL 6 MAX 6 MAX	— — —	— — —	Environ Economy unit dimmers provide a cost effective dimming solution with versions for tungsten and for fluorescent loads. They are supplied with local rotary control and can additionally be used with optional remote outstations including UP/STOP/DOWN or three preset control. A dual 6A tungsten version is also available for manual control.
Environ 2 Plug-in Modular Dimmers 	 Weights: 6A 3.5kg 16A 4.0kg 32A 5.5kg	6A (1.5kW) 16A (4kW) 32A (7.5kW) 6A 16A 32A	Tungsten Tungsten Tungsten Fluorescent Fluorescent Fluorescent	Manual Preset Manual Preset Manual Preset Manual Preset Manual Preset	09 800 04 09 802 05 09 810 01 09 812 02 09 820 09 09 822 0T 09 830 06 09 832 07 09 840 03 09 842 04 09 850 00 09 852 01	6 MAX 6 MAX 6 MAX 6 MAX 6 MAX 6 MAX 6 MAX 6 MAX 6 MAX 6 MAX	— — — — — — — — — — — —	— — — — — — — — — — — —	Environ 2 is a range of modular plug-in dimmers which can be configured into a dimming system comprising a mixture of tungsten or fluorescent loads and with manual or automatic (preset) options. Each module plugs into its own base unit which incorporates all connections for supply, load and control cables. Accessories (see back page) enable mounting and interconnection of mixed load/type modules to be fed from a single supply feeder cable. Fluorescent leads must be fitted with compatible dimmable gear. See overleaf.	
Environ Dimmer Racks	Full Width: 790mm Wide x 1475mm High x 190mm Deep Weight: 90kg Narrow Width: 500mm Wide x 1475mm High x 190mm Deep Weight: 65kg	24 x 10A 12 x 20A 12 x 10A 6 x 20A 12 x 15A	Tungsten Fluorescent	Manual Preset	To special order	Rack requires Power Supply Unit		Requires additional Preset Cabinet		Permanently hard-wired racks allow the largest installations to be economically dimmed. Standard Environ racks are customised to individual requirements from a choice of tungsten or fluorescent modules and preset or programmable features.
Environ Programmable Lighting Control Systems 	System Schematic 	Environ Racks or Environ 2	Tungsten or Fluorescent Dimmers and Demultiplex Card	Fully Programmable	To special order	8 Preset Pushbutton Stations 4 Preset Pushbutton Stations Time Clock/Events Programmer Fade Rate Preview Autocycle Alpha Numeric Display Electronic Lock-out Presets with Fader Stations Simplified Entrance Stations Partition Switches Plug-in Stations				Whether for Architectural Lighting scene creation or lighting energy management, Environ Programmable provides an advanced control system. Special outstations permit multi-room control over scenes and events via a central program module using a customised 'plug-in' cartridge linking outstations and Environ dimmers in a chosen configuration. A Master Station permits system-wide programming, including time of day, fade rates, preview and autocycle and enabling 'electronic lock-out' to prevent unauthorised alteration of programs.

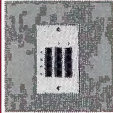
◆ Suitable Outstations ◇ Preset Dimmers not necessary for Manual Control



Control Outstations

Environ Mini Universal, Economy and Environ 2 dimmers are controlled via safe low voltage signals from remote flush mounted outstations.

Rotary and **linear** types use analogue commands. **Pushbutton** types send momentary pulses to automatic dimmers, preset at chosen levels or set by up-stop-down control. Control locations can be transferred by use of **'Take Control'** outstations. Light levels can be directly or inversely related to ambient daylight by **photocell control**.

Type		Version	Item No	Dimmer
Rotary Controllers		1-Gang Rotary	09 010 05	Any
		2-Gang Rotary	09 020 02	
		3-Gang Rotary	09 030 0T	
Linear Slider Faders		1-Gang Linear Fader	09 110 18	Any
		2-Gang Linear Fader	09 120 15	
		3-Gang Linear Fader	09 130 12	
		6-Gang Linear Fader	09 160 14	
		6-Gang Linear Fader & Master	09 160 06	
Take Control		Take Control (Fader with Pushbutton)	09 100 02	Any
Preset Pushbuttons		1-Gang (4 Pushbuttons)	09 410 03	Environ 2 Preset Dimmers
		2-Gang (8 Pushbuttons)	09 420 00	
		3-Gang (12 Pushbuttons)	09 430 08	
		6-Gang (24 Pushbuttons)	09 460 0T	
Up/Stop/Down Pushbuttons		1-Gang (3-Pushbuttons)	09 880 02	Environ 2 Preset or Economy*
		2-Gang (6-Pushbuttons)	09 881 08	
		3-Gang (3-Pushbuttons)	09 882 03	
Photo-Cell Control		Amplifier and Setting Panel Photocell with Bracket	09 201 02	Any Manual Type
			09 200 07	

*Excludes 2 x 6A Environ Economy Version

Dimmable Fluorescent Control Gear

Fluorescent lamps can only be dimmed when controlled through suitable dimming ballasts. Usually, fluorescent luminaires need to be converted for dimming by employing a circuit compatible for the type of tube used and matched to an appropriate dimmer module.

Fluorescent Tube				Ballast	Weight	Choke	Weight	Supply Volts
T	Ø (mm)	Length	Watts	Item No	kg	Item No	kg	
T12	38	600	2 x 20	09 320 06	1.5	—	—	240V, 50Hz (High Volt Cathodes)
T12	38	1200	1 x 40	09 320 06	1.5	—	—	
T12	38	1500	1 x 65	09 310 09	2.75	—	—	220V Versions can be supplied
T12	38	1800	1 x 75/85	09 300 01	2.75	—	—	
U-Tube		525 x 120	1 x 40	09 350 08	1.6	—	—	
T8	26	600	1 x 18	09 212 40	0.48	09 213 12	0.57	240V, 50Hz 220V Versions can be supplied.
T8	26	1200	1 x 36	09 212 40	0.48	09 213 14	0.65	
T8	26	1500	1 x 58	09 212 40	0.48	09 213 15	1.12	
T8	26	1800	1 x 70	09 212 40	0.48	09 213 16	1.12	

Notes:

1. Universal Dimming Transformers can also be used with T12 lamps
2. High Frequency Electronic Ballasts can be supplied as an alternative.
3. Please refer to Data Sheet for full details.

Accessories (Environ 2 only)

To aid the installation of Environ 2 plug-in modules, a mounting rail, mains connection box, busbar connectors and three phase link kits are available as accessories.

Product Description	Applications	Item No
Strand Rail (1m length)	Wall Fixing for Environ 2 Dimmer Modules	09 874 07
Mains Connection Box	Mains input chamber for Multi Dimmer Installation	09 872 06
Busbar Connecting Set	Links between Modules and Mains Box	09 871 00
Three Phase Link Kit.	Links Earth and Neutral in 3 Phase installations	09 873 01

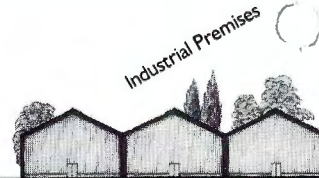
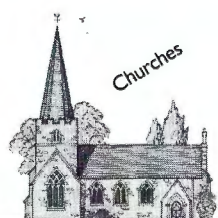
For full specifications data sheets are available for all Environ products.



Strand Commercial Lighting

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The company reserve the right to make any variation in design or construction to the equipment described.