

Fluorescent Dimming Control Box

FDC2

2 channels



FDC2



Operation method:

1. Press & hold "UP" button in UP/DN Contact Station: Output1 & 2 fade up.
2. Fading stops when button releases.
3. Press & hold "DOWN" button in UP/DN Contact Station: Output1 & 2 fade down.
4. Fading stops when button releases.
5. Either input1 or 2 could take control by pressing button.
6. When FDC2 power off, ballast output will be at "full" & no dimming can be done.
7. When FDC2 power up, ballast output will remain at full until UP/DN Contact Station take action.
8. It takes 5 seconds to fade up from 0-100%.

The fluorescent dimming control box is high performance, reliable and ideal for architectural lighting control. It is made of steel construction chassis for wall mount application. This simple device receives contact-and-hold signal to dim the fluorescent light up and down. Various 3rd party dimming switches can be worked with.

Mechanical Data

Construction	Rigid steel sheet front panel, Chassis made of steel sheet construction.
Paint / finish	steel chassis coated with grey epoxy-polyester powder paint.
Mounting	Wall mount by 4 screws

Electrical Data

Power input	200VAC ~ 240VAC single phase two wires plus earth Input cable
Frequency	50Hz
Protection	5A fused
No of outputs	2 channels of same 0 -10V DC output,
No of Inputs	2 inputs: UP/COM/DOWN for each input
Input action signal	Action when hold, stop when release, either one input signal works at the same time
LED status indicator	Power, working signal, individual channel indicators

Operational Data

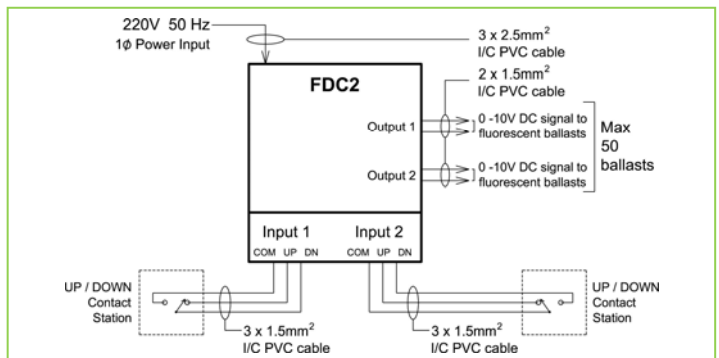
When power OFF	Output at high impedance open circuit (Ballast at FULL)
When power RESUME	Output at high impedance circuit first (Ballast at FULL)

Environmental Data

Operation humidity	5-95% non-condensing
Operation temperature	0-40°C (32-104°F)

Physical Data

Net weight	2.5 kg
Gross weight	3.5 kg
Packing size	260W / 65 D / 330H



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**Aurostar Main Controller
MC-3 Aurostar system Main Controller**

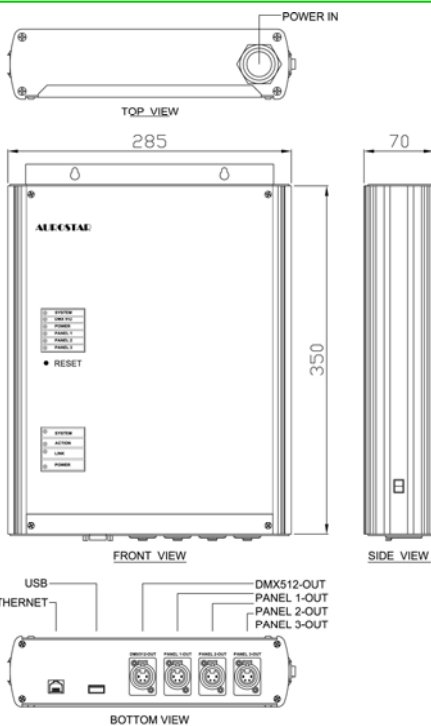
Model	Order number
MC-3	A830



**MC-3
FRONT VIEW**



BOTTOM VIEW



Aurostar is our sophisticated architectural preset lighting control system suitable for various applications like hotels, high-end residence, churches, auditoria, etc. The Main Controller MC-3 is the brain of the system which stores the system configuration and is programmable by the PC-based setup software that comes with the controller. It receives all commands from the control stations and calls

Mechanical Data

Construction	Zinc anodized steel sheet
Paint / finish	Blue epoxy-polyester powder paint
Mounting	Wall mounted by 2 x M8 screws
Top	1 x dia.33mm hole for conduit
Bottom	connectors

Electrical Data

Power input	200VAC ~ 240VAC single phase two wires plus earth, via terminals at top
Frequency	50Hz
Protection	5A Fuse
Switch	6A 250V Rocker Switch
Signal Connection	3 x 4 pin XLR female socket at bottom (for Aurostar Bus Link, connect up to 32 stations each link) 1 x 4 pin XLR female socket at bottom (for Dimmer Link, connect up to 32 dimmer cabinets) 1 x USB socket at bottom (for connecting PC programming)

Operation Data

Input signal	Aurostar Bus Link Signal input from Stations Dimmer Link (DMX512-A) signal from/to dimmer cabinets
LED Status Indicator of controller	Power, System, Aurostar Bus Link, Dimmer Link
LED Status Indicator of PC Comm	Power, System, Link, Action
PC Comm Port	USB connection to PC for programming
Memory Life	100,000 Program / Erase Cycles Minimum

Aurostar Processor Capability

Control Stations	3 x 32 stations, total 96 stations in a system
Dimmer channel	Max 512 dimmers
Area	Max 32 areas
Zone	Max 32 zones per area, max 512 zones in system Several dimmers can patch to one zone
Preset	Max 32 presets per area, max 128 presets in system
Preset Fade time	0-60 min, per sec or min increment
Sequence	Max 8 sequences in system Max 128 steps per sequence Steps can be any preset in that area
Schedule	7 daily + 4 special schedules, assignable to any date of a year
Load Type	Incandescent/ mag low volt/ fluo/ neon/ switch/ delay switch/ 3 x custom-built special load
Label	Labels for any area/ zone/ Preset/ sequence
Master OFF	For easy system wide control
Mirror Station	For room combine application
PC communication	Aurostar Setup Software, Windows-based, via USB connection
Data Backup	All data files can be backup and retrieve in PC running the Aurostar Setup Software

Environmental Data

Operation humidity	5-95% non-condensing
Operation temperature	0-40°C (32-104°F)

Standards

CE LVD directives	EN60439-1; EN60439-2; EN60950-1
CE EMC directives	EN61000-6-3 (superseded EN50081-1:1992) EN61000-6-1 (superseded EN50082-1:1997) EN55014-1; EN55015:2006+A1; IEC 61000-2-2

Physical Data

Net weight/ Gloss weight	2.5 kg /3 Kg
Packing size	W490 x D405 x H200

ADC Dimmer Cabinets

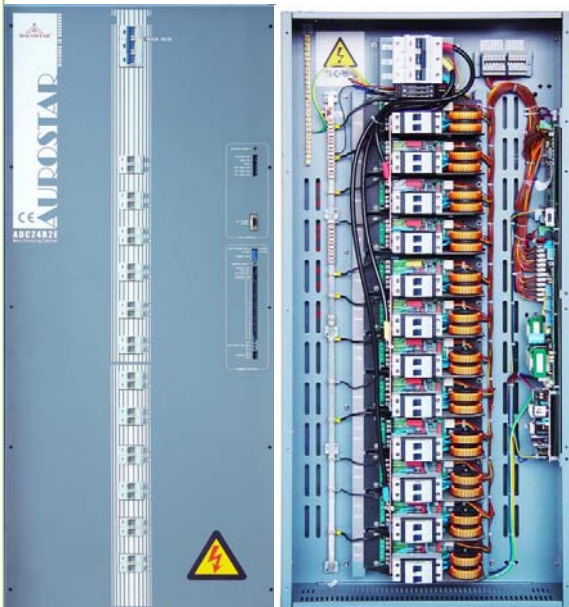
- ADC24R2E 24 ways with controller
- ADC24X2E 24 ways w/o controller
- ADC12R2E 12 ways with controller
- ADC12X2E 12 ways w/o controller

ADC Dimmer Modules

- ADC-10D Dual 10A dimmer module
- ADC-20D Single 20A dimmer module
- ADC-10L Dual 10A Non-dim module
- ADC-20L Single 20A Non-dim module



ADC24R2E



Front View

Inside View

ADC12X2E



ADC dimmer cabinet is a digital dimmer system designed for the architectural lighting control applications. The modular design offers various output power rating combined in one cabinet and this feature suits most lighting design requirements. ADC cabinet is also designed for easy installation, just like an MCB board and equips no exhaust fan ensuring it to be trouble-free after installation.

Mechanical Data

Construction	Zinc anodized steel sheet
Paint / finish	Blue epoxy-polyester powder paint
Mounting	Wall mounted by 4 x M8 screws (Min 300mm space at top and bottom for ventilation purpose)
Top	One 76x150mm hole for power cables 1 or 2 dia.33mm hole for signal cable
Bottom	Slot openings for air convection

Electrical Data

Power input	380VAC~420VAC three phases four wires plus earth OR 200VAC ~ 240VAC single phase two wires plus earth
Frequency	45Hz-65Hz auto-sensing
Main Input	80A/400V 3 phase MCB (ADC24) for max 50 mm ² cable 40A/400V 3 phase MCB (ADC12) For max 35 mm ² cable
RCD protection	optional 30mA RCD for 3 phases main input
Max power	ADC24R2E/ ADC24X2E: 52800 VA ADC12R2E/ ADC12X2E: 26400 VA
Channel protection	Electromagnetic MCB
Output Connector	Via 4mm terminals
Cooling fan	Not required
Signal Connection	Aurostar Bus Link (a shielded twisted pair signal cable + 2 x 1.5 sq.mm.), connect up to 32 stations each link (3 x links in ADC24R2E / 1 x link in ADC12R2E only) 1 x Dimmer Link (a shielded twisted pair signal cable), connect up to 32 dimmer cabinets
PC Comm Port	D9 connector at front panel (in ADC24R2E/ ADC12R2E only)
Dimmer duty cycle	100%

Operational Data

Signal	Aurostar Bus Link Signal input from Stations (in ADC24R2E/ ADC12R2E only) Dimmer Link (DMX512-A) signal from/to dimmer cabinets
LED Status Indicator of controller	Power, System, Aurostar Bus Link, Dimmer Link, over-temp (in ADC24R2E/ ADC12R2E only)
LED status indicator of dimmer	System, DMX signal, Bypass, Power A/B/C phase, individual channel level indicators
PC Comm Port	RS232 signal connection to PC for programming
Starting address	Set by dip switch at front panel for cabinet number and 12/24 channels
Panic	Internal 8V panic supply for remote panic switch connection; Individual channel panic selection by internal dip switch
Input DMX signal loss	Last scene hold / Clear mode
Modular design	Various modules for any combination
Dimming curve	S Law

Note: For the functions of the controller, refer to the MC3 datasheet.

Environmental Data

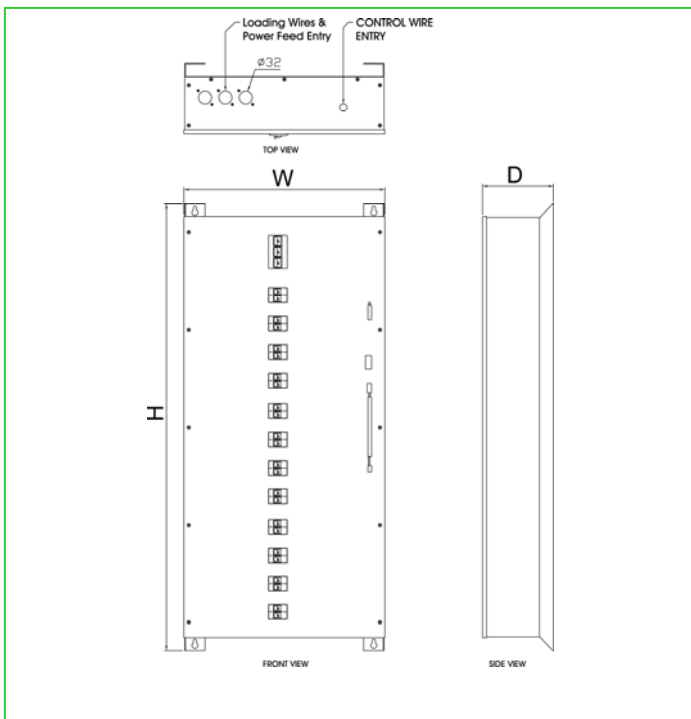
Operation humidity	5-95% non-condensing
Operation temperature	0-40°C (32-104°F)
Installation place	indoor
Heat Dissipation	2000 Btu/hr (ADC12) 4000 Btu/hr (ADC24)

Standards

CE LVD directives and standards complied	73/23/EEC, 93/68/EEC EN60598-1:1997
CE EMC directives and standards complied	89/336/EEC, 92/31/EEC EN61000-3-2; EN61000-3-3:1995 EN55103-1; EN55103-2:1997

Physical Data

Model	ADC12R2E / ADC12X2E	ADC24R2E / ADC24X2E
Weight(with full configuration)	30kg	45kg
Size mm	W / H / D 494*820*175	W / H / D 494*1250*175



Dimmer Module

Module	ADC-10D	ADC-20D	ADC-10L	ADC-20L
Description	Dual 10A dimmer module	Single 20A dimmer module	Dual 10A Non-dim module	Single 20A Non-dim module
MCB rating current	10A	20A	10A	20A
Channel protection	Electromagnetic MCB			
Breaking capacity	6kA			
Max. load per channel	10A	20A	10A	20A
Rise time	40 μ s	80 μ s	-	-
Compatible light sources	tungsten; magnetic low voltage; neon	tungsten; magnetic low voltage; neon	Resistive and inductive loads	Resistive and inductive loads
Connection	<ol style="list-style-type: none"> 1. MCB output: for battery maintained circuit/ temporary circuit connection 2. Switch output: temporary dimming bypass connection 3. Dim output: normal dimming connection 			
Dimmer duty cycle	100%			

Ordering Information

	Model No.	Ordering No.
Cabinet	ADC24R2E	A3A0
	ADC24X2E	A3D0
	ADC12R2E	A330
	ADC12X2E	A360
Module	ADC-10D	A110
	ADC-20D	A140
	ADC-10L	A130
	ADC-20L	A150

Modules



Dimmer Module



Non-dim Module

Macostar reserves the right to change the specification without prior notice.
Macostar International Ltd: ADCdimmer - DATA - V1.2A - 05 Oct 2012