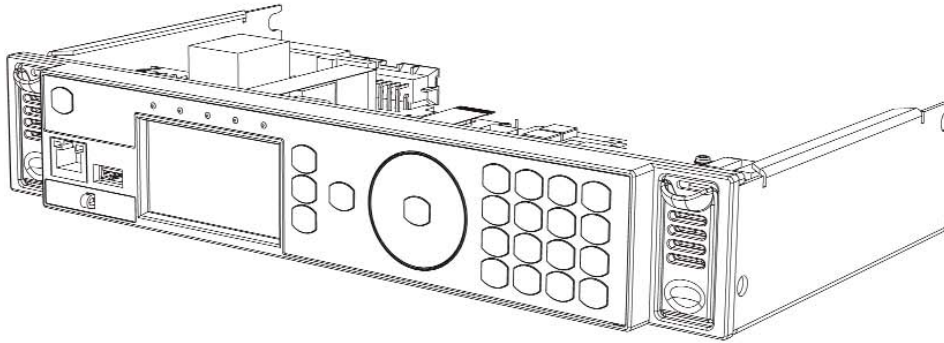


CEM3 Power Controller

ETC Power Control Series

100V 115/120V 230/240V



GENERAL INFORMATION

The Sensor[®]3 Control Electronics Module (CEM3) is ETC's new platform for power control. CEM3 manages priority based Ethernet, DMX and preset control for ultra smooth 16 bit dimming, fast activation of relays, and instant on support for emergency lighting systems. Energy usage, system status, and quick changes to circuit setup can be accessed at its intuitive face panel or remotely at the lighting control position.

APPLICATIONS

- Professional entertainment venues
- Production studios
- Concert and performance halls
- Themed entertainment and architectural installation
- Multi-purpose conference and exhibition venues

FEATURES

- **Net3 Uplink** - Connect the Net3 Lighting network using the ethernet jack on the front of the control module
- **USB QuickLoad** - Backup system settings and upgrade software
- **Point of Control Interface** - Easy to read systems display shows the user pertinent system information
- **Live Control Override** - For presets, set level, and dimmer check
- **Local Menu** - Access to set up features and control directly at the control processor
- **Backup Looks** - 64 presets with programmable fade times and priority allows for take control, pile on, or live control failover sources to insure that your show will never go black
- **Connect to Console** - System and rack feedback to live control desks is standard
- **Quick Setup Wizard** - Builds a simple system in a single step
- **Advanced Features (AF)** - Dimmer-specific reporting
- **Ride Thru** - Optional accessory which holds up the processor electronics through a power outage for a few seconds
- **Battery Pack** - Optional accessory which holds up the processor electronics through a power outage for many minutes

ORDERING INFORMATION

Control Module

PART NO.	DESCRIPTION
7140A1001	CEM3 Power Controller

Compatible CE Systems

MODEL	DESCRIPTION
SENSOR3 CE INSTALLATION RACKS	
ESR3N-48/ ESR3AFN-48	Sensor3 CE 48 module installation racks
ESR3N-36/ ESR3AFN-36	Sensor3 CE 36 module installation racks
ESR3N-24/ ESR3AFN-24	Sensor3 CE 24 module installation racks
ESR3N-12/ ESR3AFN-12	Sensor3 CE 12 module installation racks
SENSOR3 - OTHER RACKS	
See US Datasheet for more rack options	

CEM3 Accessories

MODEL	DESCRIPTION
RK	Retrofit kit for Sensor Standard and Advanced racks

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SPECIFICATIONS

GENERAL

- Universal Control Electronics Module
- Direct Ethernet connectivity for dimmer levels, feedback and system control
- CE compliant, UL and cUL LISTED

PHYSICAL

- Formed steel body
- Die cast face panel finished with textured epoxy paint
- Slide-in module installs and removes without tools
- Spring-loaded module release
- Airflow sensor to ensure adequate airflow

ELECTRICAL

- Universal Voltage range 181VAC-259 VAC*
 - Line feed frequencies from 47-53Hz
 - Automatic frequency variation compensation
 - Two configurable DMX512 inputs (2500V opto-isolated)
- *Note: Suggested max main transformer tap 255V to allow for line fluxuation.

CONTROL FEATURES

- Eight-line by 20-character graphical LCD for system configuration, live control, and status display
- Full number pad for quick access to dimmers
- Shortcut buttons for Setup, About, and live control
- Five status LED indicators: Power, Network activity, DMX-A, DMX-B, and Panic
- 64 user-programmable presets
- Single Panic circuit with flexible programming
- Replacement CEM3 automatically loads rack configuration
- Configuration backups saved on USB or network
- Dimmer outputs regulate to maintain constant power $\pm 1V$
- Individual output scale voltage settings for load wiring compensation
- Control Modes: Dimmed, Switched, Latch/lock, Always On, and Off
- Selectable Dimmer Output Curves: Linear, Modified Linear, Square, Modified Square and Sensor 2.0. Five custom curves
- 16-Bit fade resolution (> 30,000-Step Resolution per 1/2 cycle)
- Selectable Data Loss Behavior

FEEDBACK

- All Sensor racks with CEM3 modules include basic system diagnostic reporting
- Standard rack feedback includes: DMX input status, Rack power status, and Rack temperature
- Advanced Features (AF) provides dimmer specific status and load feedback (requires AF dimmer rack and AF dimmer modules)

LOCAL PROGRAMMING

LOCAL LIVE CONTROL

- Set Levels, Preset Activation, and Dimmer Check

STATUS (ABOUT)

- Dimmer: module type, mode, recorded and actual load, control source, and module location
- Rack: temperature, rack type, Run Hours
- Network: IP address, SubNet mask, Gateway and active link
- Rack Data Ports: status for DMXA and B, and sACN
- About Rack Power: frequency, voltage per phase, and voltage headroom
- About Software: version number

SETUP

- Setup dimmer: Firing Mode, Curve, Scale Voltage and Name
- Patch
- Set rack priority per DMX port
- Data Loss Behavior: Hold last Look, Wait and fade, Play Preset
- Name the rack (using ACN)
- Custom dimmer numbering
- Get Config and save Config to USB|

PHYSICAL

CEM3 Dimensions

MODEL	HEIGHT	WIDTH	DEPTH
	mm	mm	mm
CEM3	52	300	178

CEM3 Weight

MODEL	WEIGHT	SHIPPING WEIGHT
	kgs	kgs
CEM3	1.6	2.8

Maximum BTU Production per Module

MODEL	BTUS	WATTS	EFFICIENCY
CEM3	<10	<4	N/A

AVAILABLE FROM