

SENSOR 3™

POWER CONTROL SYSTEM



Adapt to change

With a power system ready
for the lighting revolution



Lighting is changing

And it will keep changing.

Sensor3 Power Control is designed to handle change.

Power

Sensor3™ bridges your system to the future. The ideal new theater design or retrofit uses a hybrid lighting system that can accommodate all loads — tungsten, LEDs, arc-source movers, and the unknown, while being ready for a time when LEDs may be the dominant source. The new Sensor3 ThruPower™ Module allows you to switch freely between constant power, on/off switching with air-gap relays, and dimming for your lighting loads.

Control

ETC's CEM3™ is the powerful new platform for Sensor3 Power Control.

Easy use

Adjustments to the power rack are a snap with CEM3 technology. Backlit graphical display, one-button operation, number-pad for circuit entry, and other shortcut features reduce setup time and simplify the rig-check process.

High performance

CEM3 offers 16-bit fade resolution, immunity to power-line disturbances like voltage and frequency fluctuations, plus support for up to 12 network sources, and advanced curve adjustments for tuning fades across different load types.

Powerful backup

Lighting systems can never have too much backup: Sensor3's RideThru and BatteryPack options ensure power to the controller during outages. Support for multiple prioritized sources allows multiple consoles to back each other up on the network. If sources are lost, CEM3 has solutions for data loss including hold last look or automatically play a backup preset. And the system configuration is fully backed up on the rack's backplane for zero-configuration controller replacements.

System Management

System integration

The Sensor3 Power Control System's tight integration with ETC consoles makes it an extension of them. Not only do you have instant access to system and circuit status, you can shift between dimmable and non-dim operation, update curves, change minimum or maximum output voltages, set preheats, activate backup looks, and record loads. And ETC's Net3™ means that any ACN-based software or console can be seamlessly integrated into the Sensor3 system.

Remote management

Control the power system from anywhere. Get immediate, at-a-glance-monitoring of and access to your entire lighting system: real-time status of intelligent fixtures, network equipment, protocol-converting Gateways, power status, and more.

Introducing Sensor3 ThruPower Module

ThruPower bypass includes dimmers and relays, so there's no need to change out modules!



Switches located at the front of Sensor3's ThruPower module provide a choice of local override or standard control for each circuit. When switched to the "on" direction, the power is routed directly from the breaker to the output without passing through the dimmer or toroid filter (choke). This prevents the output voltage from being turned off by the control system — even in the event of the control module being removed from the system. When the switch is set to the "Dim" position the ThruPower modules can be turned on, off, or dimmed remotely by the CEM3.

Constant circuit

"Always on" uses the CEM3 software to lock the relay on overriding any DMX or network levels coming to the CEM3. This feature provides a remotely activated "on" command, which prevents accidental shut-off of the circuit by a remote-control desk. Later command of "off" can be sent by a console or remote software to intentionally shut off power at day's end.

Relay

"Switched" allows CEM3 software to respond to incoming priority-based levels to lock circuits on and turn them off using air-gap relays. The dimmer and choke are completely bypassed to eliminate potential warranty discussions with LED and moving-light fixture manufacturers. While in this mode, the circuit is setup and used exactly like Sensor relay modules.

Dimmer

"Dimmable" operates the dimmer in full dimmable range using a choice of fade curves for 0-full fades of conventional fixtures. In dimmable mode, the setup and use are the same as a Sensor dimmer module.

Entertainment lighting has entered the most radical period of change since the transition from carbon-arc to tungsten light sources. New types of lighting fixtures are everywhere — in theater, broadcast production, and architecture. As more are coming to market, Sensor® 'dimming' has evolved — to Sensor3 Power Control.





CEM3™

- Point of Control Interface – Easy-to-read display shows you pertinent system information
- Backup looks – 64 presets with programmable fadetimes and priority allow for take-control, pile-on, or live-control failover sources to insure that your show will never go black
- ThruPower – Triple function mode that allows the new ThruPower Modules to operate each circuit as dimmer, relay, or constant



ThruPower™ Modules

- Ideal for applications where load types are not likely to be known at time of installation or are likely to change frequently
- Dimming, constant-circuit power, and switched power modes – all in one module
- Voltage, current, temperature sensor in all modes
- Power any kind of lighting fixture



Sensor3™ Installation Racks

- Ideal for professional theaters, broadcast studios, concert and performance halls
- Standard system and rack monitoring with diagnostic reporting, as well as dimmer-specific load reporting and diagnostics
- High dimmer density
- Adaptable modular design
- RideThru – Optional accessory that holds the processor electronics through a power outage for a number of seconds
- Battery Pack – Optional accessory that holds the processor electronics through a power outage for a number of minutes



Net3™ network

For complete control over any ambitious lighting and media rig the future may hold, the most comprehensive ACN network is ETC's Net3. Net3 provides the best traffic management available for high-capacity entertainment-technology applications, talking directly to complex devices, without the need for added DMX hardware. Sensor3 Power Control uses Net3.



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