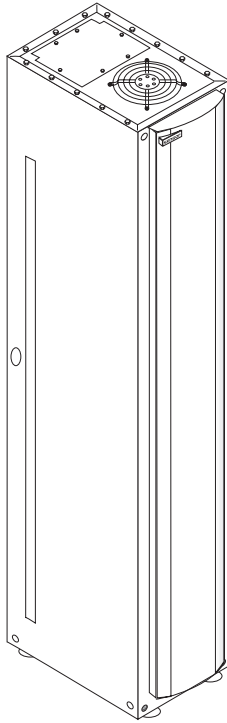




100V 120V

Sensor+ Series



GENERAL INFORMATION

Sensor+ dimming systems provide high density, professional features and exceptional reliability for lighting applications that require the best the entertainment industry can offer.

APPLICATIONS

- Professional and educational theatre
- Production studios
- Concert and performance halls
- Themed retail and dining
- Multi-use Convention Centers
- Houses of Worship

FEATURES

- Standard system and rack monitoring with diagnostic reporting as well as dimmer-specific load reporting and diagnostics
- High dimmer density
- Up to two 2.4kW dimmers per module
- 6, 12, 24, and 48 module racks available
- Rugged industrial construction
- Installation flexibility
- Adaptable modular design
- 100,000A Short Circuit Current Rating (SCCR)
- Advanced configuration editing built into rack
- Stores up to 128 Presets in memory
- Direct Ethernet control signal input
- Two DMX512 inputs
- Supports ETC Dimmer Doubling™
- All racks UL and cUL LISTED

ACCESSORIES

- SmartLink<sup>®</sup> Button Stations and SmartLink TimeClock
- Dimmer Doubler
- Sound Suppression Hood
- Floor pedestal for 24-module rack
- Document holder

ORDERING INFORMATION

Installation Racks

MODEL	DESCRIPTION
SR48AF+	Sensor+ 48 Module Advanced Features Rack
SR24AF+	Sensor+ 24 Module Advanced Features Rack
SR12AF+	Sensor+ 12 Module Advanced Features Rack
SR6AF+	Sensor+ 6 Module Advanced Features Rack
SR24AF+1P	Sensor+ 24 Module Single Phase Advanced Features Rack
SR12AF+1P	Sensor+ 12 Module Single Phase Advanced Features Rack
SR6AF+1P	Sensor+ 6 Module Single Phase Advanced Features Rack

Rack Options\*

MODEL	DESCRIPTION
AT48	Amp-Trap fuse option for 48-module rack
AT24	Amp-Trap fuse option for 24-module rack
AT12	Amp-Trap fuse option for 12-module rack
BK48	Bussing kit for 2 – 48-module racks
BK24	Bussing kit for 2 – 24-module racks
BK12	Bussing kit for 2 – 12-module racks
AUX30-48	30" Auxiliary Rack(s) for 48-module rack
AUX19-48	19" Auxiliary Rack(s) for 48-module rack
AUX12-48	12" Auxiliary Rack(s) for 48-module rack
AUX19-24	19" Auxiliary Rack(s) for 24-module rack
AUX19-12	19" Auxiliary Rack(s) for 12-module rack

\*Vibration Reduction mounts available for all Sensor+ racks. Contact ETC for details

Rack Accessories

MODEL	DESCRIPTION
SSSh24-48	Sensor+ Sound Suppression Hood – large
SSSh6-12	Sensor+ Sound Suppression Hood – small
Pedestal	Floor pedestal for 24-module rack
DH	Document Holder

SmartLink Accessories

MODEL	DESCRIPTION
S-LPB	SmartLink Power Board for Sensor+ Racks*
S-10005	SmartLink 5-Button Station*
S-10010	SmartLink 10-Button Station*

\*One SmartLink Power Board required for station support.

S-LPB supports up to four stations.

Only one S-LPB may be enabled in a system.



**SPECIFICATIONS**

**GENERAL**

- Racks available in four sizes
  - SR6AF+ 6 modules, 12 dimmers maximum
  - SR12AF+ 12 modules, 24 dimmers maximum
  - SR24AF+ 24 modules, 48 dimmers maximum
  - SR48AF+ 48 modules, 96 dimmers maximum
- Dual density (two dimmers per module), single density and half density dimmer modules available
- Operating temperature: 0-40°C / 32-104°F
  - Dimmer room HVAC systems must at all times maintain the specified ambient temperature at the dimmer rack.
  - Dimming systems operating within 10 degrees F of the upper or lower temperature limits must strictly follow installation and operation guidelines to operate reliably.
- Relative humidity: 30-90% non-condensing
- All racks UL and cUL LISTED
- UL924 LISTED for Bypass operation

**MECHANICAL**

- Rugged 16-gauge steel construction
- Fine-textured, scratch-resistant, epoxy paint
- SR6AF+ and SR12AF+ uses wall mount installation
- SR24AF+ can be wall or pedestal mounted
- SR48AF+ is floor mounted
- Top and bottom conduit access through removable panels (SR48AF+) or knockouts (SR6AF+, SR12AF+, and SR24AF+)
- No tools required for module removal or installation
- Keyed module slots prevent insertion of inappropriate module types
- Front access to all wiring and terminations
- Full height locking door
- Electrostatic air filter easily removed from door for periodic cleaning
- High efficiency cooling system with airflow sensor
- High visibility LED status beacon

**ELECTRICAL**

- SR6AF+, SR12AF+ and SR24AF+ accept:
  - Three phase 120/208 VAC
  - Single phase 120/240 VAC
- SR48AF+ accepts
  - Three phase 120/208 VAC
- Line feed frequencies from 47-63Hz
- Line feed voltage range is 90-140 VAC
- Load terminals accept up to #4 AWG (16mm<sup>2</sup>) wire (see chart)
- Short Circuit Current Rating: 100.000A RMS symmetrical @ 240VAC
- Auxiliary equipment racks and custom switchgear/distribution available (Call ETC for details)

**CONTROL ELECTRONICS**

- Sensor+ Control Electronics Module (CEM+)
- Single Ethernet control signal input
- Two DMX512 inputs
- System, rack, and dimmer-specific load and diagnostic reporting via browser-based interface or DimStat software
- Supports Dimmer Doubling™
- Supports SmartLink® control of presets

**OPTIONS**

- Amp-Trap® fuses to allow feeding individual racks from oversize mains
- All-copper bus kits available
- Vibration reduction kits available for all racks
- SmartLink Power Board
- SmartLink TimeClock

**ADDITIONAL INFORMATION**

**Compatible Dimmer Modules**

SENSOR ADVANCED FEATURES (AF) MODULES	
MODEL	DESCRIPTION
D15AF/D20AF	Dual 15A/20A Dimmer Module – 350µS – AF
D50AF	Single 50A Dimmer Module – 500µS – AF
D100AF*	Half 100A Dimmer Module – 500µS – AF
D20HR	Single 20A Dimmer Module – 1000µS – AF
D20DHR	Dual 20A Dimmer Module – 800µS – AF
D50HR	Half 50A Dimmer Module – 800µS – AF
SENSOR SPECIAL PURPOSE MODULES	
L10	Dual 10A Low Wattage Dimmer Module
L10F	Single 10A Low Wattage Fluorescent Dimmer Module
D15F/D20F	Single 15A/20A Fluorescent Dimmer Module
R15AF/R20AF	Dual 15A/20A Relay Module – AF
CC15/CC20	Dual 15A/20A Constant Circuit Breaker Module
AFM	Air Flow Module

\*Half-density modules use two module slots

**Control Modules**

MODEL	DESCRIPTION
CEM+	Control Electronics Module +

**Load Wiring Lug Capacity**

CONNECTION	WIRE SIZE
10A, 15A, 20A, and 50A lugs	4 AWG Max. (16mm <sup>2</sup> )
100A lugs	2/0 Max.

**Primary Feed Lug Capacity**

CONNECTION	WIRE SIZE
SR48AF+	Dual 600 kcmil – 2 AWG
SR24AF+	Dual 350 kcmil – 4 AWG
SR12AF+	Dual 250 kcmil – 6 AWG
SR6AF+	Single 2/0 – 14 AWG

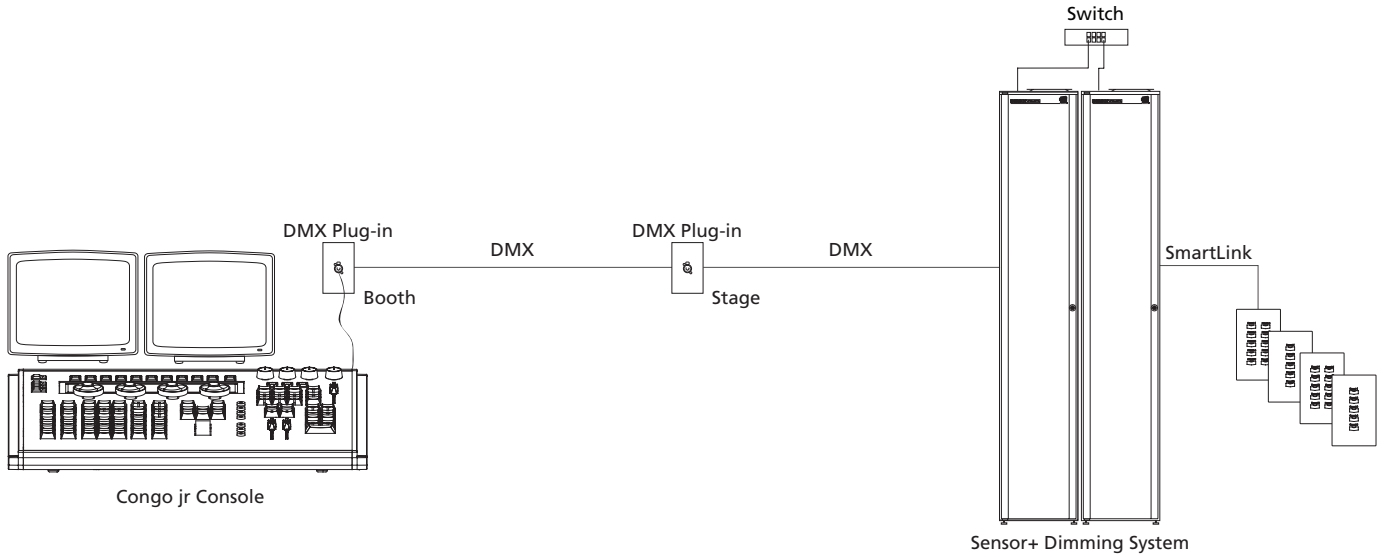
**Sound Pressure Level (dBA)**

MODEL	dBA @ 1000Hz (1kHz)*	
	WITHOUT	WITH SSSh**
SR48AF+	37.0	30.9
SR24AF+	40.2	34.0
SR12AF+	41.8	33.8
SR6AF+	26.0	21.4

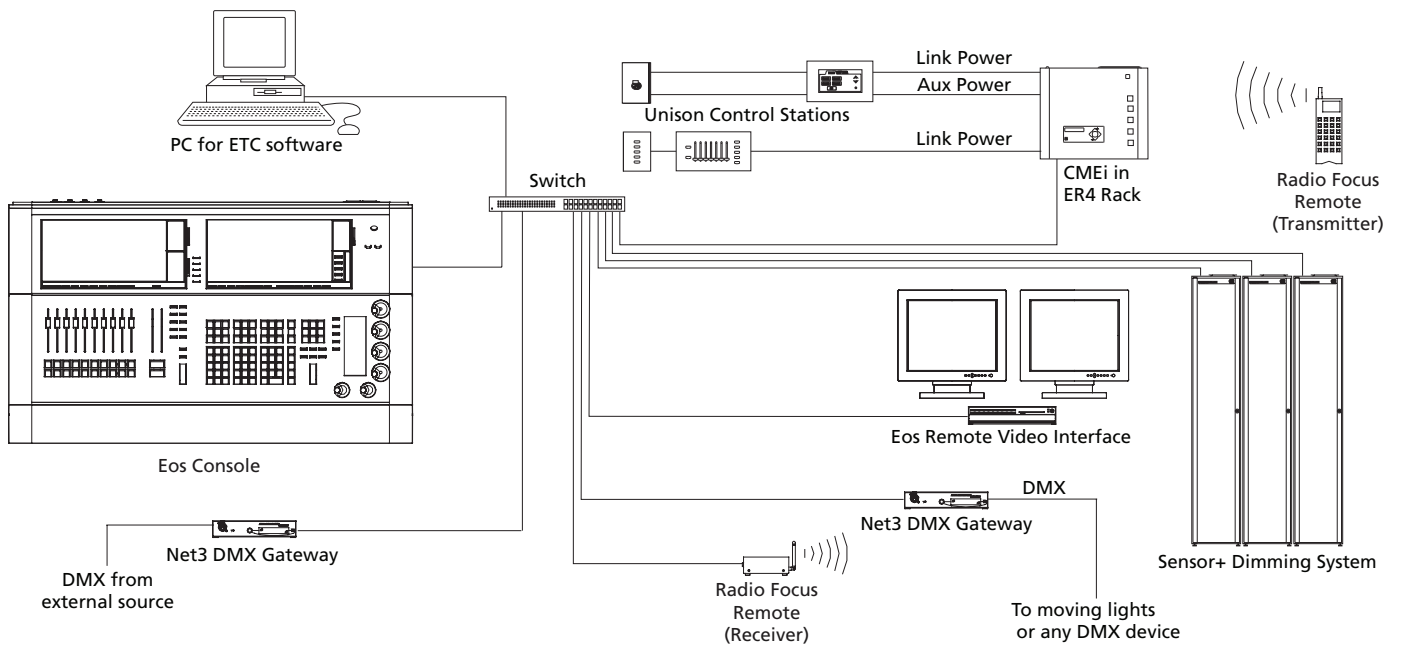
\*dBA values for each Sensor rack measured at 1 meter. Visit [www.etcconnect.com](http://www.etcconnect.com) for full spectrum dBA ratings.

\*\*Sensor Sound Suppression Hood (SSSh)

TYPICAL SYSTEM RISER



TYPICAL NETWORK RISER



PHYSICAL

Empty Dimmer Rack Weights

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
SR48AF+	188	86	198	90
SR48AF+ Door*	31	14	35	16
SR24AF+	107	49	115	53
SR24AF+ Door*	17	8	20	9
SR12AF+	45	21	50	23
SR12AF+ Door*	11	5	14	6.5
SR6AF+ with Door	36	16	45	21

\*Rack doors ship separately

Installation Rack Dimensions

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
SR48AF+	83.1	2110	14.6	370	22.8	580
SR24AF+	45.8	1160	14.6	370	16.8	430
SR12AF+	25.8	660	14.6	370	13.3	340
SR6AF+	16.4	420	14.6	370	13.3	340

Full Dimmer Rack Weights

MODEL	MAX. WEIGHT		TYPICAL WEIGHT	
	lbs	kgs	lbs	kgs
SR48AF+	493	224	459	209
SR24AF+	261	119	244	111
SR12AF+	115	53	105	48
SR6AF+	71	33	66	30

\*Maximum – D100AF modules (11.7lbs/slot) Typical – D20AF modules (5lbs/slot)

Refer to module datasheets to calculate rack weight for other module types

