

## OVERVIEW

The *SmartBreaker* Panel uses solenoid-operated thermal magnetic breakers to combine over-current protection and lighting control into a single package. Save even more space by mixing controlled and conventional breakers in the same panelboard.

The *SmartBreaker* Panel is part of the GR 2400 system and seamlessly integrates with all other GR 2400 relay panels, accessories, and other LC&D digital devices. Directly control each breaker using software or from the Digital Time Clock (DTC) located in the Master Panel.

## FEATURES

- Available with main lugs (MLO) or MAIN breakers
- Retrofit chassis
- Modem for basic programming changes
- RJ45 connectors that can link up to 127 digital addresses via Cat. 5 patch cable
- AIC up to 65K

## Warranty

Three-year limited warranty. Complete warranty terms located at:

[www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**Note:** Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.



## GR 2400™ SmartBreaker Panel



## ORDERING INFORMATION

SMARTBREAKER PANEL					Example: GR2400SBP CHASSIS 120V208V 400AMP MLO 14K DTC SM NE4 TOP		
System Type	Voltage	Capacity	Feed Type <sup>2</sup>	AIC	Clock Option	Enclosure Mounting & NEMA Rating	Feed Orientation
GR2400SBP CHASSIS	120V208V	100AMP	MAIN Main Breaker	14K <sup>2</sup>	DTC Digital Time Clock	SM NE1 Surface Mount, Nema 1	TOP Top Feed
	120V240V	225AMP	MLO Main Lug Only	65K <sup>1</sup>	DTCMOD Digital Time Clock w/modem	FM NE1 Flush Mount, Nema 1	BOTTOM Bottom Feed
	277V480V <sup>1</sup>	400AMP	MLODL Main Lug Only with double Lugs		REMOTE Remote Panel	SM NE4 Surface Mount, Nema 4	
		600AMP				SM NE4X Surface Mount, Nema 4X	
						SM NE12 Surface Mount, Nema 12	

SMARTBREAKER PANEL BREAKERS		
Ex: GR2400SBP BRKR 1P20ARB		
System and Type <sup>3</sup>	Breaker and Breaker Accessories	
GR2400SBP BRKR	1P[amp]ARB	1-Pole Remote Breaker
	2P[amp]ARB	2-Pole Remote Breaker
	1P[amp]ABB	1-Pole Branch Breaker
	2P[amp]ABB	2-Pole Branch Breaker
	3P[amp]ABB	3-Pole Branch Breaker
	BSPC	Breaker Spacer
	CLIP	Locking Clips

Where [amp] is replaced with desired ampere rating for each breaker (please refer to the Ampere Rating Table to select the proper rating for a specific breaker type).

Ampere Rating Table				
Remote Breakers	Branch Breakers			
1- or 2-Pole	1-Pole		2-Pole/3-Pole	
15	15	40	15	50
20	20	45	20	60
25	25	50	15	70
30	30	60	30	90
	35	80	35	95
			40	100
			45	

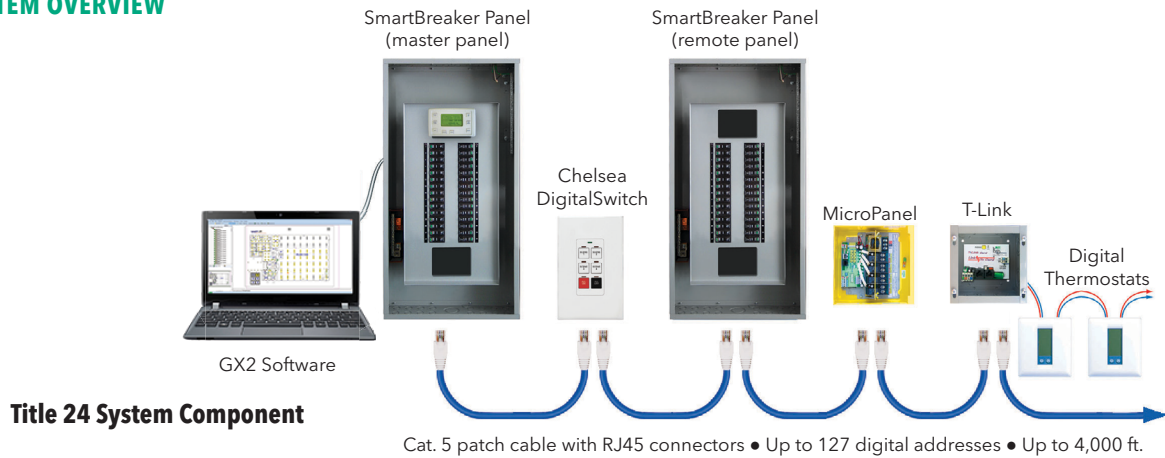
1. If feed voltage is specified 277V480V and AIC is specified 65K, then feed type must be MAIN.
2. AIC Rating for MLO or MLODL panel(s) is set at 14K AIC.
3. Due to the complexity of this product, breakers must be entered as separate line items following the chassis code. Enter quantities as part of the line entry. Note that one 20A 1P breaker must be reserved to provide power for control electronics.

If you have not filled all 42 breaker positions, you must fill the remaining positions with breaker spacers - BSPC.

Example: If a 225A feed current panel has (32) 1-pole breakers specified, then 10 breaker spacers are required. If (20) 2-pole breakers are specified, 2 BSPC spacers are required. For (12) 3-pole breakers you would need 6 spacers.

**NOTE:** Alternate feed voltages, AIC ratings and feed currents, as well as other non-standard options are available. Please contact the factory for quotation of panels beyond the options outlined here.

## SYSTEM OVERVIEW



## SPECIFICATIONS

### Electrical

- Power Supply Input: 120/277VAC

### Mechanical

- Standard Enclosure Type
- Surface mount, hinged locking door, NEMA 1 standard
- Flush mount NEMA 1 available
- NEMA 4, 4X, 12 available

### Environmental

- Ambient: 32°F to 104°F (0°C to 40°C)
- Relative Humidity: 10-90% non-condensing

### Standards

- UL listed

### Addresses Used

- 6 addresses

### Programming

- Via Digital Time Clock (DTC) or with PC via Unity2 lighting control software

### Bus Physical Layer

- RS485 (GR 2400 bus)

### Bus Connector

- RJ45 connectors