

Powerlink® G3 2000 Level Controller



2000 Controller

Powerlink® G3 Intelligent Lighting Panels provide a simple, cost-effective and energy code-compliant way to control branch lighting circuits from a standard panelboard. Powerlink G3 systems feature a powerful microprocessor based controller that performs the necessary communications and logic functions to achieve branch circuit control of lighting in commercial, institutional and industrial buildings.

The 2000 level controller combines the control, input and scheduling features of the 1000 level controller plus the added benefit of embedded Ethernet connectivity. Communicating over a true peer-to-peer control network, the 2000 level controller is capable of sharing input signals, schedules and lighting zones with other controllers.

Features

- Stand-alone lighting control system, meets ASHRAE 90.1 and CA Title 24 requirements
- 16 hard-wired inputs available for connection to devices with physical dry-contacts
- 64 communication inputs available for network connection
- 16 independent time schedules, each can be configured into 24 distinct periods
- 7-day repeating clock, with changeable automatic daylight savings time
- Automatic sunrise/sunset tracking with offsets
- 32 special event periods
- 32 remote sources for sharing input status, time schedules, or zone status between controllers
- Full custom logic capabilities, including full Boolean functions and synchronization services
- RS-232 and RS-485
- Ethernet 10BaseT
- Serial communications using Modbus® ASCII/RTU, BACnet MS/TP and DMX512 protocols
- Ethernet communications using Modbus TCP and BACnet/IP protocols
- Up to 168 remotely operated circuit breakers per controller
- UL® Listed

Make the most of
your energySM

Features

2000G3	
Input Terminals*	
2-wire	16
2-wire with status feedback**	8
3-wire	8
Input Types	
2-wire normally open (NO) or normally closed (NC)	X
2-wire NO or NC, w/auto blink notification	X
2-wire maintained toggle	X
2-wire momentary toggle	X
2-wire momentary ON or momentary OFF	X
3-wire momentary	X
Input timers (1 sec - 18 hr)	X
Input synchronization	X
Sentry Switch support	X
ON delay/OFF delay	X
Time Scheduler	
Independent schedules	16
ON-OFF periods/schedule	24
7-day 24-hr repeating schedule	X
Special event/holiday periods	32
Automatic daylight savings	X
Sunrise/sunset with offsets	X
Network time sync. (TCP conn. required)	X
Network Variables	
Communications inputs (network accessible)	64
Remote sources (per controller)	32
Maximum subscriptions	256
Zones	
Maximum number	64
Maximum number of sources per zone	4
Configurable source logic	X
Max. number of remotely operated circuit breakers (per subnet)	168
Blink notice	X
ON -time	X
Networking	
RS-232 port/RS-485 port	X
Ethernet (10BaseT port)	X
Protocols	
Modbus® ASCII/RTU, Modbus TCP	X
BACnet/IP, BACnet MS/TP	X
DMX512	X
C-Bus®	-
Front Panel	
Backlit LCD display	X
Password or front panel disable	X
Memory	
Non-volatile memory for programs and configuration	X
On-board capacitor to power clock chip during power outage	X
Flash memory for firmware upgrade	X
Viewing Options	
Event log	X
Strike Counter	X
Alarm viewing via Event Log	X

*Terminals accept 24-18 AWG conductors

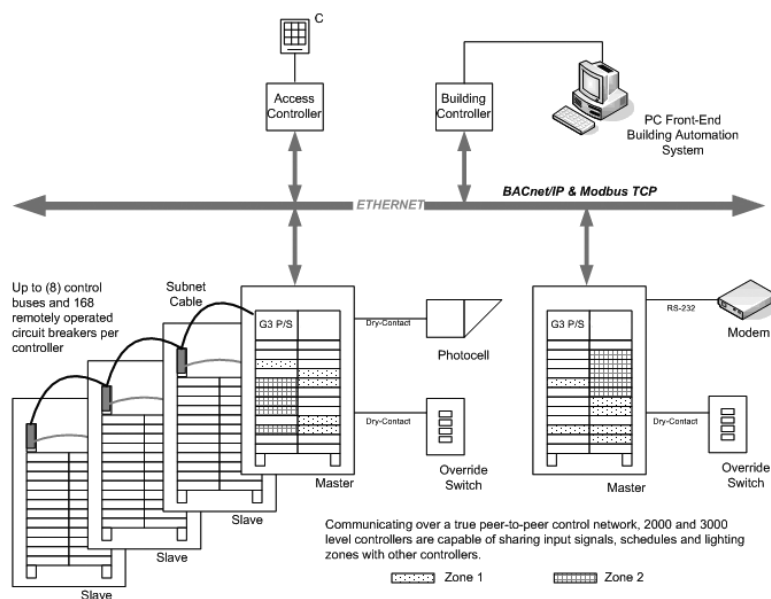
** 7.5 mA maximum load per input terminal

Specifications

Powerlink® 2000G3 Controller	
Operating Environment (external panelboard ambient)	Temp.: 23°F to 104°F (-5°C to 40°C) RH: 95%, noncondensing
Storage Environment	Temp.: -4°F to 185°F (-20°C to 85°C) RH: 95%, noncondensing
Standards	<ul style="list-style-type: none"> UL Listed 916, Energy Management Equip. FCC: Part 15, Class A NEC: Class 1 and Class 2 Control Circuits ESD Immunity: IEC 1000, level 4 RF Susceptibility: IEC 1000, level 3 Electrical Fast Transient Susceptibility: IEC 1000, level 3 Electrical Surge Susceptibility: IEC 1000, level 4 (power line) Electrical Fast Transient Susceptibility: IEC 1000, level 3 (interconnection lines)

Order Information


Description	Catalog Number
Powerlink G3 2000 Controller	NF2000G3



2000G3 Configurations

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