Catalog Number: | Date: | Project:

OVERVIEW

The Blue Box system is the 100% digital replacement for traditional time clocks, twist timers and contactor packages. Panels and switches daisy-chain together using Cat. 5 patch cable with RJ45 connectors in any sequence. A photosensor input supporting the Blue Box outdoor photosensor is provided for controlling exterior lights. Ideal applications include small stand-alone systems such as: tenant improvement, specialty retailers and site lighting. Also used as a remote panel with the GR 2400™ system.

FEATURES

- 32-channel, 365-day/astronomical time clock. Large display (21 x 8 characters) acts as programming interface for the entire system. Non-volatile memory holds all programming indefinitely. Ten-year battery back-up for time-of-day
- Manual override of individual relays, zones or entire panel. 30 A Latching Relay allows default to NC (normally closed) or NO (normally open) on power failure. UL listed for 18,000 amp SCCR at 277V
- Will operate with all GR 2400™ accessories
- Available with 14 contact closure input card option
- Link up to 16 digital devices via Cat. 5 patch cable with RJ45 connectors

AcuityControls™

Blue Box™

GR1400™ Control Panel

Warranty
3-year limited warranty. Complete warranty terms located at:
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.

ORDERING INFORMATION

ENCLOSURE and INTERIOR must be ordered on separate lines, see Examples.

ENCLOSURE — **Example: GR1416 ENC SM NE1**

Relay Panel Enclosure		Mounting, NEMA Rating	
GR1416 ENC	16 relays maximum	SM NE1	Surface Mount, NEMA 1
		SM NE4	Surface Mount, NEMA 4
		SM NE4X	Surface Mount, NEMA 4X
		SM NE12	Surface Mount NEMA 12

INTERIOR — **Example: GR1416 INT 16NCL DTC DV**

Relay Panel Interior		Relays[1,2]		Clock Option		Transformer		Dry Contact Inputs (optional)	
GR1408 INT	8 relay interior	(qty)NCL	Normally closed latching	DTC	Digital time clock	DV	Dual voltage 120/277V	DTCDI	14 inputs for DTC panel
GR1416 INT	16 relay interior	(qty)NOL	Normally open latching	DTCMOD	Digital time clock with modem	CNDV	Canadian dual voltage 120V/347V	REMDI	14 inputs for Remote panel
		(qty)DPNC	Double pole normally closed	REMOTE	Remote panel, no clock				
		(qty)DPNO	Double pole normally open						
		(qty)RRP	Reed relay (pair)						
		(qty)SPDT	Single pole double throw						
		(qty)SPDTC	Single pole double throw contactor						

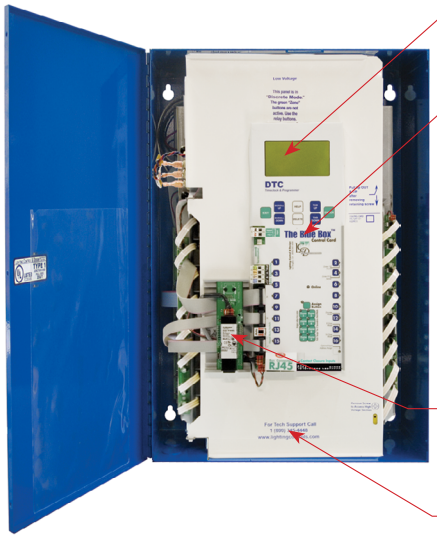
Notes:
1. Total quantity of relays specified must equal the number designated for that panel. The GR1416 may only have 16 relays, the GR1408 may only have 8 (example: GR1416 INT 16NCL = a quantity of 16 normally closed, latching relays for the GR1416 interior)
2. 2-pole relays, reed relay pairs, and contactor relays all count as two relay spaces (example: a GR1416 INT may not have more than 8 2-pole relays).

SPECIFICATIONS

Enclosure dimensions:	
Surface:	12" w x 18" h x 6" d (8 or 16 relays)
Enclosure type:	Surface mount, hinged cover enclosure with friction catch, NEMA 1
Optional enclosures:	Surface mount NEMA 4, NEMA 4X, NEMA 12
Relay:	Normally Closed (NCL) 30A @ 277VAC Ballast 20A @ 120VAC Tungsten 20A @ 347VAC Ballast SCCR 18kA @ 277VAC Rated 250,000 Cycles
Optional relays:	Normally Open, (NOL) Spec same as NCL; Two Pole - NO or NC (480V); Double Throw 20A 277VAC

Power for occ. sensor:	24V/200mA (with DI option)
Max. devices per bus:	16 with Blue Box Master Panel
Addresses used:	2 addreses
Power supply inputs:	Dual voltage 120/277VAC or Canadian dual voltage 120/347VAC)
Programming:	Via DTC
Max. humidity:	10 to 90% non-condensing
Ambient temperature:	32 to 105° F (0 to 41° C)
Bus protocol:	RS485 (GR 2400 bus)
Bus connector:	RJ45 connectors
Listings:	UL and cUL 916 listed, ETL listed to UL 924 (for emergency circuit use)

DETAILS



1400 DTC Clock:
32-channel, 365-day astro clock to access and program the entire system

Relay Control Card:
Manual control of zones or individual relays

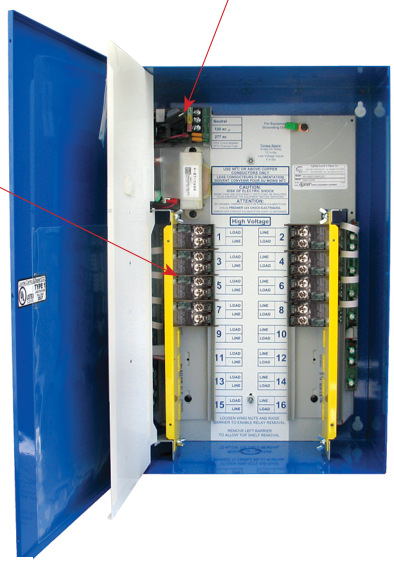
Lighting Relays:
Normally Closed (NCL), 30A@277V Ballast, 20A@120V Tungsten, 20A@347V Ballast, SCCR 18kA@277V, Rated 250,000 Cycles

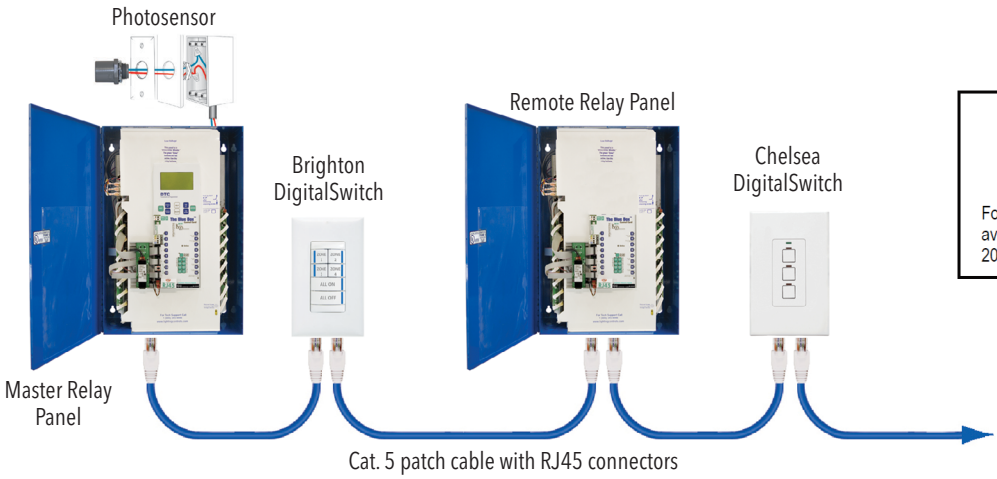
Optional relays:
Normally Open, (NOL) Spec same as NCL; Two Pole – NO or NC (480V); Double Throw 20A 277V

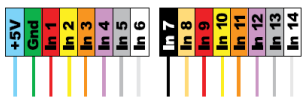
Modem:
For remote programming and control, includes free lifetime dial-up programming

Electronics back plate:
High/Low Voltage Barrier

Power Supply
(120/277V or 120/347V)







Fourteen global, programmable contact-closure inputs are available as an option. Use shielded conductors for over 200ft runs. Connect shield at box only.

Up to 16 digital devices with a Blue Box master panel
Up to 127 digital devices with a GR 2400 master panel
Up to 4,000 ft. bus length