

The Blue Box

Control Panel



An Acuity Brands Company



The Blue Box LT Series

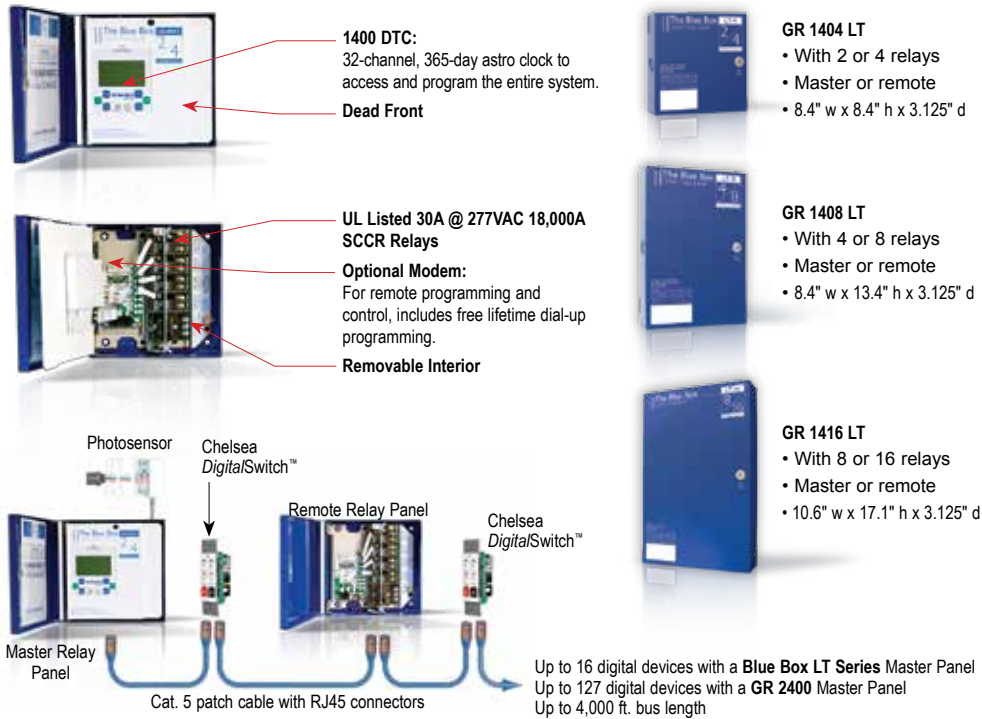
Description: The Blue Box LT Series is a cost-effective, simple alternative to traditional time clocks, twist timers and contactor packages. It comes in three enclosure sizes, each with a compact footprint. The Blue Box LT Series is ideal for small-to-medium projects, and arrives pre-assembled and ready for installation. The Master Panel may be networked with up to 16 digital devices including remote relay panels, switches and photocell. The Master Panel has an input for an outdoor photosensor which may be programmed to control any relay(s) on the bus. The Blue Box LT Series is compatible with LC&D's GR 2400 system accessories. Blue Box LT remote panels may be used on GR 2400 systems.

- Features:**
- 100% digital
 - UL Listed 30A @ 277V ballast/HID, 20A tungsten, 18,000A SCCR normally closed latching lighting relays (NCL)
 - Simple networking with Cat. 5 cable with RJ45 connectors
 - Hinged locking door
 - Replace expensive line-voltage cabling for override switches and photocells
 - Integrates with all other GR 2400 system components

Specifications:

Enclosure dimensions:	GR1404LT (2 or 4 relays) NEMA 1 - 8.4" w x 8.4" h x 3.125" d NEMA 4/4X/12 - 12"w x 16"h x 6"d GR1408LT (4 or 8 relays) NEMA 1 - 8.4" w x 13.4" h x 3.125" d NEMA 4/4X/12 - 16"w x 20"h x 6"d GR1416LT (8 or 16 relays) NEMA 1 - 10.6" w x 17.1" h x 3.125" d NEMA 4X - 16"w x 24"h x 8"d NEMA 4/12 - 16"w x 24"h x 6"d	SCCR 18kA @ 277VAC Rated 250,000 Cycles
Enclosure type:	Surface Mount, Hinged Locking Door, NE 1 Flush Mount optional	Optional relays: Normally Open (NOL) 2-Pole Relay in remote panels only
Optional enclosures:	NEMA 4, NEMA 12	Max. devices per bus: 16 digital devices w/ Blue Box LT Master Panel
Relay:	Normally Closed (NCL) 30A @ 277VAC Ballast and HID 20A @ 120VAC Tungsten 20A @ 347VAC Ballast	# of Addresses: GR 1404 (1), GR 1408 (1), GR 1416 (2) Programming: Via DTC Max. humidity: 10–90% non-condensing Ambient temperature: 32–104° F (0–40° C) Power supply voltage: 120/277VAC (for all) 120/347VAC (for 1408 & 1416) 347VAC (for 1404 only)
		Bus physical layer: RS485 (GR 2400 bus) Bus connector: RJ45 connectors Listings: UL and cUL 916 listed, ETL listed to UL 924 (for emergency circuit use)

One Product...Three Solutions



Seismic Certification:

- Preapproved for use in Category IV structures with an Importance Factor of 1.5
- California Office of Statewide Health Planning and Development (OSHPD) Special Seismic Certification Preapproval (# OSP-0091-10)

Evaluated per the requirements of:

- 2007/ 2010 California Building Code
- Section 13.2.5 of (American Society of Civil Engineers / Structural Engineering Institute) ASCE/SEI 7-05

- Tested to: ICC-ES AC156

ORDERING INFORMATION

Enclosure

Relay Panel Enclosure

GR1416 LT ENC = 16 Relay Enclosure
GR1408 LT ENC = 8 Relay Enclosure
GR1404 LT ENC = 4 Relay Enclosure

Enclosure Mounting, NEMA Rating

SM NE1 = Surface Mount, NEMA 1
FM NE1 = Flush Mount, NEMA 1
SM NE4 = Surface Mount, NEMA 4
SM NE12 = Surface Mount, NEMA 12

Interior

Relay Panel Interior

GR1416 LT INT = 16 Relay Interior
GR1408 LT INT = 8 Relay Interior
GR1404 LT INT = 4 Relay Interior

Relays

[qty]NCL = Normally Closed Latching
[qty]NOL = Normally Open Latching
[qty]DPNC = Double Pole Normally Closed
[qty]DPNO = Double Pole Normally Open
[qty]RRNO = Reed Relay Normally Open (pair)
[qty]SPDT = Single Pole Double Throw
[qty]SPDTC = Single Pole Double Throw Contactor

Total quantity of relay spaces specified must either equal to, or half of, the total allowed in any given enclosure. The GR1416 may only have 16 or 8 relays, the GR1408 may only have 8 or 4, and the GR1404 may only have 4 or 2 (example: GR1416 LT INT 8NCL = a quantity of 8 normally closed, latching relays for the GR1416 LT interior).

2-pole relays, reed relay pairs, and contactor relays all count as two relay spaces (example: a GR1416 LT INT may not have more than 8 2-pole relays).

2-pole and contactor relays may not be combined into the DTC or DTCMOD option panel.

Clock Option

DTCMOD = Digital time clock with modem
DTC = Digital time clock without modem
REMOTE = Remote panel, no clock

Transformer

DV = Dual voltage 120/277V
CNDV = Canadian dual voltage 120/347V (GR1408 & GR1416 only)
347 = 347 volt (GR1404 only)

Voltage Barrier

1VB = 1 Voltage Barrier

Dry Contacts (optional)

D6 = 6 inputs (with enable/disable)
D14 = 14 inputs (no enable/disable)

Examples:

GR1416 LT ENC SM NE1
R1416 LT INT 16NCL DTCMOD DV D14
GR 1416 Blue Box LT master panel with a modem, in a surface mounted, NEMA 1 enclosure, with 16 normally closed relays, 120/277V dual voltage transformer and 14 dry contact inputs.
GR1408 LT ENC SM NE1
GR1408 LT INT 4NCL 2DPNC REMOTE DV
GR 1408 Blue Box LT remote panel, in a surface mounted, NEMA 1 enclosure, with 4 normally closed relays and 2 2-pole normally closed relays, and a 120/277V dual voltage transformer.