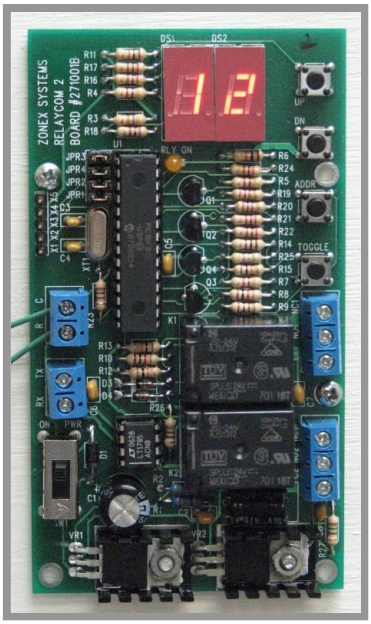
RLYCOM COMMUNICATING RELAY MODULE

SUBMITTAL



RLYCOM
Communicating Relay Module

DESCRIPTION

The Zonex Systems RLYCOM is a communicating relay module, which provides programmed ON and OFF schedules for auxiliary devices such as blowers, fans, lighting, etc. As with the communicating thermostats, the Command Center (*ModCom, ZonexCommander, ZonexCommander (Plus)*) Schedule program provides up to 4 Occupied – Unoccupied events per day for each RLYCOM, including vacation days. The control status of the RLYCOM is displayed on the Review screen of the Command Center program.

The RLYCOM consists of 2 SPDT relays for controlling 24vac circuits. Power for the RLYCOM is provided by any 24vac source, except from the Command Centers.

The RLYCOM requires a unique address from 01 to 20 (except *ZonexCommander Plus* 05 to 20). Communication is through the RS-485 twisted pair, or shielded twisted pair control wire.

OPERATION

The RLYCOM requires a unique address for system communication. The ON – OFF times for the RLYCOM are entered in the Schedule tab on the Command Center program.

When the RLYCOM is in the Occupied mode, the on-board relays are energized. In the Unoccupied mode, the relays are de-energized. The mode status is displayed on the Review screen of the Command Center program and on the RLYCOM circuit board. On the Command Center program, the RLYCOM is displayed with a row of "0"s. The Occupied mode is displayed with a RED "0" in the Unoccupied Heat column. The Unoccupied mode is displayed with a BLUE "0" in the Unoccupied Cool column. The mode is also displayed on the RLYCOM circuit board with the Red PWR LED. When the LED is illuminated, the device is in the Occupied mode. When the LED is OFF, the device is in the Unoccupied mode. The mode can be tested manually at the RLYCOM by pressing the TOGGLE button. The mode can also be changed from the Command Center program on the System tab.

NOTE: The SPDT relay outputs are pilot duty dry contacts rated for a maximum load of 2 amps on 24vac circuits only. Additional pilot relays may be required for proper circuit control.

TECHNICAL DATA

Electrical

Supply Voltage: 24vac
Power Consumption: 4 VA maximum
Output: 2 **–** SPDT dry contacts, 2A @24vac

Communication: RS-485 (Belden 8740)
Comm link maximum length: 4,000 ft.

Environmental

Operating temperature*:* 35° to 130° F (2 to 54° C)
Operating humidity: 5% to 95% non-condensing
Storage temperature: 0° to 150° F (-18 to 66° C)

General

Galvanized Metal Enclosure 4½" H x 5" W x 1½" D

Rev 12/8/09

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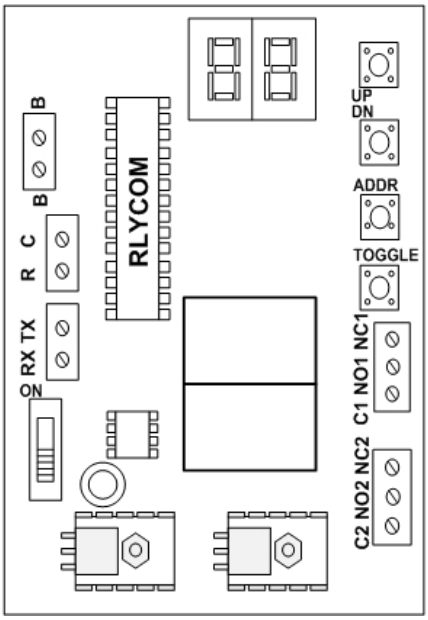
ORDERING INFORMATION

Part No.	Description
RLYCOM	Communicating relay module

Note: Each **RLYCOM** will reduce by (1) the quantity of thermostats available from the Command Center.

TERMINAL FUNCTIONS



R - 24vac power
C - 24vac common
TX - Data transmit
RX - Data receive
C2 - K2 relay common terminal
NO2 - K2 normally open terminal
NC2 - K2 normally closed terminal
C1 - K1 common terminal
NO1 - K1 normally open terminal
NC1 - K1 normally closed terminal
TOGGLE - Manual mode test
ON - Power Switch