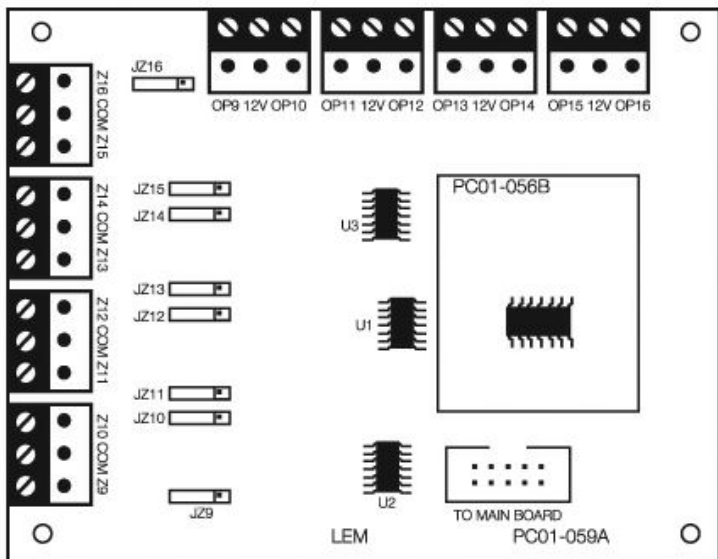


Local Expansion Modules



Local Expansion Modules provide additional Inputs and Outputs to Comfort or Slaves.

There are 3 types of LEMs;

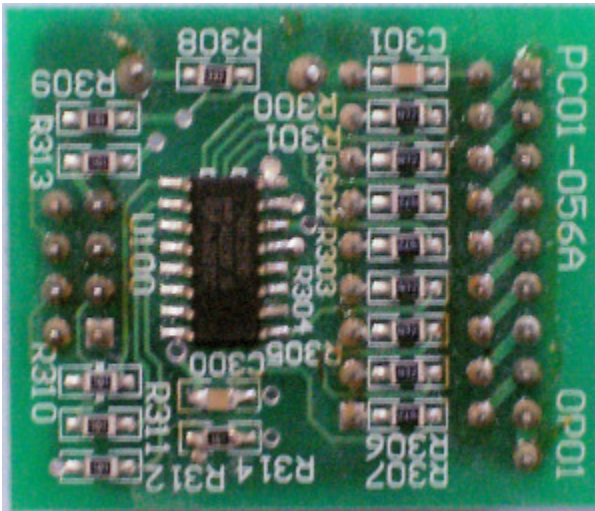
1. LEM01-M2 has 8 inputs and 8 outputs.
2. LEM02-M2 has 8 inputs with no outputs. This is the same as the LEM01-M2 without the OP01 output driver module. The LEM02-M2 can be transformed into the LEM01-M2 by plugging in a OP01 module.
3. LEM03 has 16 inputs and no outputs. With the LEM03 connected to Comfort, no Slaves can be added. Thus the total capacity of the system becomes 24 inputs and 8 outputs. To enable the LEM03 16-zone board, go to Configuration > Modules & Settings and check the box for LEM03 (24 zone). The LEM03 cannot be connected to a Slave Expansion Module. .

The Local expansion modules are connected locally to the Comfort main panel or Slave expansion Panels via a short 10-way ribbon cable to socket J5. The board is mounted within the main panel using the four fixing posts and screws provided, or it can be mounted on the base of the Comfort enclosure using amn optional longer ribbon cable. Hence only 1 LEM can be connected to Comfort or SEMs. When more than 16 Inputs and Outputs are required, Slave Expansion Panels (with Enclosures) are required. SEPs are the same size as Comfort and have their own power supply and batter charger

to supply auxilliary power to external devices. Refer to the Slave Expansion Module manual at http://www.cytech.biz/expansion_modules.html

OP01 Output Driver

The OP01 Output driver is a plug-in board for Comfort, Slave, and LEM01 boards which contain the 8 output drivers. The purpose of this arrangement is so that if any output is damaged by external voltages, the OP01 can be replaced or removed without affecting the Security System. The OP01 is plugged in on top of the OP headers on Comfort, Slave or LEM boards



Output Specifications

- 8 open collector outputs
- Each output can drive external relay or infrared LED for remote control appliances. RLY02 Relay Modules with 8 or RLY01 with 4 relays are available.
- Selectable Pulsed or Latched output activation.
- Infrared codes (air conditioners, home entertainment) can be sent to any output.
- Maximum combined output current of 300 mA for all 8 outputs, 150 mA max for any one output.
- Over voltage and Surge-protected outputs.

Document Revision History

1.0.1 - 29 Nov 2012 - 110 x 190 mm leaflet

1.0.0: 22 January 2011 - Initial Release.