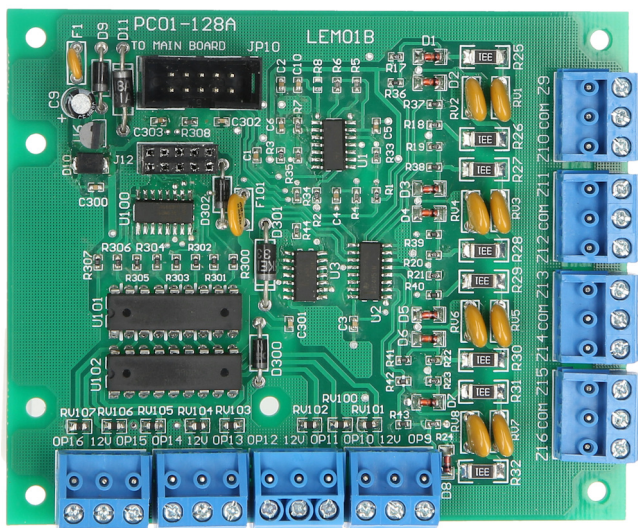


LEM01B Local Expansion Module



LEM01B Local Expansion Module with 8 Inputs, 8 Outputs

Local Expansion Modules provide additional Inputs and Outputs to CM9001 or Slaves (SEM01C)

There are 3 types of LEMs;

1. LEM01B has 8 inputs and 8 outputs.
2. LEM02B has 8 inputs with no outputs which can be plugged into the CM9001 PCB without needing any cable.
3. LEM03B has 16 inputs and no outputs. LEM03B should be connected to the CM9001 (without Slaves) or the last Slave (SEM01C) in the system. SEM01C with a higher ID cannot be connected if LEM03B is connected to the previous Slave or CM9001.

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 an 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 battery charger to supply auxiliary power to external devices. Refer to the Slave Expansion Module manual at

http://www.cytech.biz/expansion_modules.html

End Of Line Resistors for LEMs

Unlike LEM01-M2, LEM02-M2, LEM03-M2, the new LEMs do not have EOL Shunts to determine if EOL resistors are to be connected to each zone. EOL setting is now programmed in Comfigurator (3.13.x and above). **If LEM01B or LEM03B is connected to the old CM9000 PCB, End-of-line resistors MUST be connected to each Input of the LEM.**

LEM01B 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 600 mA for all 8 outputs, 150 mA max for any one output.
- Over voltage and Surge-protected outputs.

Input and Output Numbering

The Inputs and Outputs on the LEM connected to CM9001 are numbered 9 to 16.

The full I/O numbering of LEMs and SEMs (Slave Expansion Modules) are shown below

CM9001	1 to 8
CM9001s LEM	9 to 16
SEM #1	17 to 24
SEM #1's LEM	25 to 32
SEM#2	33 to 40
SEM #2's LEM	41 to 48
SEM #3	49 to 56
SEM # 3's LEM	57 to 64
SEM #4	65 to 72
SEM # 4's LEM	73 to 80
SEM #5	81 to 88
SEM # 5's LEM	89 to 96

If LEM03 with 16 inputs and 0 outputs is connected to CM9001 or SEM01C, then SEM01C with a higher ID cannot be connected

110 x 190 mm

Document Revision History

1.0.1 – 1 Ssept 2019