PERTRONIC INDUSTRIES LTD

INSTALLATION NOTE

MINI MIMIC

The LCD **Mini-Mimic** is used to present global information on its 2-line display for ***F100A*** and ***F120*** fire alarm panels. The mini-mimic can be configured to mimic the F100 panel display, the first 2 lines of. the F120 panel display, or display only the alarm messages of the selected panel. It also contains a buzzer that follows the panel buzzer, and it can be locally silenced. Terminals are provided to connect an external buzzer, which follows the on-board buzzer.

Connection

The Mini-Mimic is connected to the fire panel via the panel's external RS485 Port. The maximum length of cable between the last device on the chain and the Panel is 1.2 Km; twisted pair cable is recommended. The A/B signal lines must be terminated at the last remote device with a 470-ohm resistor placed between terminals A and B. Incoming cables from the control panel or previous device for both power and data are terminated at terminal block K10; outgoing cables to the next device are terminated at terminal block K2.

Power Supply:	Provided through connector K10, 12 – 24VDC
Quiescent current:	35mA.

Mini-mimic addressing

The rotary address switch SW1 can be used to select addresses 1 to 9 for supervised mimics, or for address 0 for non-supervised, indicating-only mimics. Inserting link LK5 (**10's**) sets the address range to 10 through 19 (supervised). Mimics that are supervised send the key presses—Reset and Next, as applicable—to the panel. In addition, the panel must be configured with the exact number of supervised devices; otherwise, it will report a fault condition. All supervised mimics must be set to consecutive addresses from 1 up to the number of mimics connected, unless connecting to a network (see below).

Enhanced Address selection

NOTE: Enhanced address selection only applies to mimics with pcb version 1.35 or later, and with software version 2.24 or later. When inserting the link LK6, the RS485 address becomes programmable, overriding the physically selected address.

Setting the address

With LK6 inserted, pressing **Config** (S3) briefly puts the board in programming mode, and the LCD shows the currently stored address. Pressing **Next** (S5) increases the address by one. Pressing **Reset** (S2) (if fitted) clears the address back to 0. Repeatedly pressing **Next** will scroll up through all addresses from 0 to 32, and then start again at 0. Once the required address is displayed, pressing **Config** again briefly stores the configured address in EEPROM and then resets the mimic. Addresses can be set up between 0 and 32 in this way. Refer to the appropriate panel documentation for allowable values for that panel.

If link LK6 is removed during any operating stage (power connected), the address is automatically reverted to that address set by switch SW1 and jumper LK5, as described above. However, the soft address is stored and is used if the link LK6 is inserted.

Network address

Enhanced addressing (LK6 in) is used for network applications; in this case, address 0 is also supervised.

Functions

Two or three pushbutton switches are provided for the user:

- **Buzzer Silence**
  The left button S1 is used for local Buzzer Silence. This will silence the local buzzer on the mimic, and also the external buzzer if it is fitted to K5.
- **Reset (optional)**
  The central button S2, if fitted, will reset the control panel and mimics if all the alarm conditions have been acknowledged ***and*** are not set to call the brigade.
- **Next**
  The right-hand button is used to scroll to the next event when there is more than one active event. This affects the control panel display as well as any other mimics.

Two terminal blocks are available for optional external connections:

- **Ext Buzz**
  This pair of terminals (K5) allows the user to connect an external buzzer, used for installations where the mimic is in an unmanned position.
- **Reset**
  This pair of terminals (K6) allows the user to connect a remote, momentary-closing switch, which will have the same effect as the on-board Reset switch, if fitted. Note that this has no effect on setting the enhanced address selection method discussed above.

Five jumper options are provided:

- **LK1**
  This jumper, when fitted, selects compatibility of the mimic with the F120 control panel. If LK1 is not fitted, the mimic is compatible with the F100 control panel.
- **LK2**
  This jumper, when fitted, selects alarm indication only by the mimic. No system events, defects, or such will be displayed. If LK2 is not fitted, all events will be displayed like the control panel display.
- **LK4**
  This jumper is for factory testing only and should not be fitted.
- **LK5**
  This jumper is used for setting the RS485 address, described above. When fitted, it adds 10 to the address set by the rotary switch SW1. This has no effect when LK6 is fitted.
- **LK6**
  This jumper, when fitted, puts the mimic into Enhanced Address mode—used for networking—as described in Enhanced Address selection above.