

# **MODEL MINCON-8 Series**

## **TELEPHONE LINE CONCENTRATOR**

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### **Confidentiality Notice**

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### **General Information**

The MINCON-8 telephone line concentrator was developed for use in public areas requiring a reliable, virtually indestructible telephone line concentrator device. The processor unit allows up to eight telephone devices to access a single incoming telephone line (one at a time). The Mincon-8 provides a platform that can be tailored to meet a wide variety of needs and can be customized to meet other applications at very reasonable cost.

The standard version of software installed in the Mincon-8 allows any of the eight telephone devices such as the Minelec 25000 or 280 series Emergency telephones to connect to the telephone line. If more than one telephone is taken off-hook, the first one off- hook input takes precedence and the remaining off-hook telephones are provided with a 'Busy' tone signal.

When connected to a Minelec head end system the Mincon-8 can be programmed to provide an I.D. number that can be interpreted by the head end equipment to identify both the installed Mincon-8 location and the activated telephone port. The Mincon-8 is powered by the supplied AC/DC plug-in 120/24v dc. module and the 24vdc cable (user supplied) should be connected to terminal block J3 terminals 1 & 2 within the Mincon-8.

Optional software can be installed to provide two autodial numbers, the second of which will be automatically dialed if the 1<sup>st</sup> dial number is not answered in 5 rings.

## Connections:

- 1) **Power:** The supplied 24v dc power module is connected to Terminal Block J3 using a 2 conductor cable installed via the 16mm dia. compression gland.  
J3/1 - +ve  
J3/2 - -ve
- 2) **CO. Line:** Connect the telephone line to the C.O. port
- 3) **Local Port:** Not used in this version
- 4) **RS 232 data port:** Not used in this version
- 5) **Ports 1-8:** Connect required telephone devices as appropriate
- 6) **Programming:** Programming of both the autodial number and Mincon-8 Identification Number are as shown below.
- 7) **LED's:** There are 10 led indications consisting of: 8 x line ports, 1 x C.O. Line and 1 x Mincon 8 Status Led .

### **In normal mode:**

Port LED's are lit when port 1-8 are active (led 1-8)

C.O. Line LED is lit when C.O. Line is active (led 9) on incoming or outgoing calls

Status LED (LED 10) has SLOW flash rate when inactive and FAST flash rate when active

Note: When dialing out ALL LED's will pulse when the Mincon-8 detects ring tones.

### **In program mode:**

All port LED's are lit AFTER the passcode is entered and accepted

C.O. line LED is lit when the incoming call is answered by Mincon-8

Status LED stops flashing

Note: If required programming link P2 can be removed. This prevents any further access to the program mode and retains in memory the previous settings.

**Lightning protection has been fitted to the Mincon-8. Terminal block J3/4 terminal MUST be connected to the electrical system ground to enable the lightning protection. This clamps the telephone line ground to the electrical system ground.**

## **Programming Instructions**

The Mincon-8 allows programming of ALL features from a remote location (See the Remote programming Section) and requires a touch tone (DTMF) telephone connected to a separate central office (CO) or private branch exchange (PBX) line.

## **Remote Programming**

The programming mode is accessed by dialing a four digit programming password (#123).

The programming password is FIXED in memory and cannot be changed. This facility provides an extremely high degree of reliability of gaining access to the programming features when remote accessing the unit as it prevents inadvertent changing or corruption of the passcode - an effect that often prevents programming entry.

## **Password Enabled Programming**

1. Using a DTMF (touch tone) telephone, place a call to the Mincon-8. The device will automatically answer on the first ring and will generate a single tone when answered.
2. Dial the first digit of the four digit passcode (#123) within 5 seconds and the Mincon-8 will continue to wait for the remaining digits. If all digits are entered correctly the Mincon-8 acknowledges with a success tone (single beep) indicating the programming mode has been accessed.

Note: The Mincon-8 will automatically drop off-line if an incorrect Passcode digit is entered. A corresponding error code is sent back to the caller (for use with the Minelec Head End display system).

3. If the 'success' tone has been generated, begin entering the desired user-programmable parameters. See the programming sequences section. A 'success' tone (single beep) is generated each time a new parameter is accepted.
4. Terminate the programming by replacing the DTMF telephone on-hook and the Mincon-8 will disconnect from the telephone line.

## Programming Sequences

The programming information in the following section explains the remaining options that can be programmed remotely using a DTMF telephone. The Mincon-8 is shipped from the factory with a set of default parameters that are listed in the Programming Table. We recommend that the user carefully reads this section prior to programming and records any desired parameters they wish to change.

The following programming options are available:

Autodial Number 1: Assigns a telephone number to the autodial button.

**Program Sequence:**

#1xxxx\* where xxxx is the required autodial number (up to 12 digits)

(default number: 6137412471)

eg: #16137412471\*

I.D. Code: Enables a unique Location Code (I.D.) to be entered

**Program Sequence:**

#2xxxx\* where xxxx is the required I.D. number (up to 10 digits)

(default code: 101)

eg: #2101\*

Download Program: This facility has been included to allow ALL programmed information to be output in a string of DTMF data. When used with suitable Head End/monitoring equipment such as the MINTEL Display Units, full programming information can be downloaded from the telephone. NO USER programming is required as this is a standard CONTROL code. Note: This information can only be output by calling the Mincon-8, entering the programming passcode, followed by the activation sequence number “#9”

**Activation Sequence:**

#9

Disconnect Code: This facility allows the Mincon-8 to be disconnected by issuing a DTMF code (#0) to the device. For use when CO or PBX exchanges do not provide Loop Disconnect features including dial tone disconnect or when an automated disconnect system is in place. NO USER programming is required as this is a default CONTROL code. This ‘control’ code is often used in a Security application when the Security personnel want to control the disconnect process of the calling Emergency Telephone.

**Activation Sequence:**

#0