TS700

Installation & User Guide



Compatible Equipment

NETLED - Remote Keypad NETSTAR - Remote Keypad

NETARM - Remote Keypad

TS700.LEC - 2 Zone Expander

LEC 6 - 6 Zone Expander

DC54/58 - Digital Communicators

CPA6 OM - Output Module

9040 - Loudspeaker

NIB - Linedriver

Overview

Introduction

The TS700 intruder alarm control system is provided for Additional equipment may be connected to the TS700: domestic and commercial intruder alarm systems conforming to BS4737: part 1: 1986. The system consists of a control panel and at least one remote keypad.

Control Panel

The control panel is the controlling unit for the alarm system with its own power supply and an internal battery (supplied separately) for use during a mains failure.

It has the following facilities:

- Eight programmable detection circuits
- Bell and strobe output
- Four programmable high current outputs
- Eight programmable digicom outputs
- Connection for a plug-on digicom
- Extension loudspeaker output (16 Ohms)
- 1.5 Amp power supply
- All system data stored in a Non-Volatile memory (NVM)

Remote Keypads and LECs

The TS700 system will accept three types of remote keypads: The NETLED remote keypad has a 4 x 7 segment LED display and a power indicator. The NETSTAR remote keypad has a 8 character LCD display and a power indicator. The NETARM remote arming keypad has a power indicator and a programmable function LED. The Local Expansion Card (TS700.LEC) provides the means of adding two detection circuits without the need of using a remote keypad. All device types can be used on the same system, providing the total does not exceed four. Each device provides the following facilities:

- Two programmable detection circuits
- A programmable output

Options

- A plug-on digital communicator type DC54 or DC58 can be fitted inside the control panel to transfer panel status information to a dedicated alarm receiving centre via the BT network
- Other types of digital communicators, RedCARE STU or Paknet interface card can be connected to the control panel to transfer panel status information to a dedicated alarm receiving centre via the BT network
- A printer type CPA6.P (obsolete) or a standard RS232 serial printer via a Menvier Security Printer Adaptor (MPA/DCI) can be connected to provide a printout of the 200 log events and system parameters.
- An output module type CPA6.OM can be connected to provide an output to a set of LEDs/relays to indicate circuit activation. Each module will provide up to eight circuit indications and two modules can be "daisy chained" to provide up to sixteen outputs.

Specifications

Input Voltage: 230V +/-10% 50Hz

Control Panel: 110mA (normal) 190mA

(alarm with extension

speaker)

Power Supply Rating: 1.5 Amp

NETSTAR 50mA (normal) Remote Keypad: 60mA (alarm)

NETLED 60mA (normal) Remote Keypad: 70mA (alarm)

NETARM 30mA (normal) Arming Keypad: 40mA (alarm)

Battery: 12V 7Ah Sealed Lead

Acid type

Zones with tamper loops: 10 - 16

Panel dimensions: 383(w) x 312(h) x 95(d) mm

Panel weight

(w/o battery): 4.4kg

Remote Keypad dim.: 150(w) x 100(h) x 30(d) mm

Remote Keypad weight: 280g

Environment: 0 - 55 °C

System Configuration

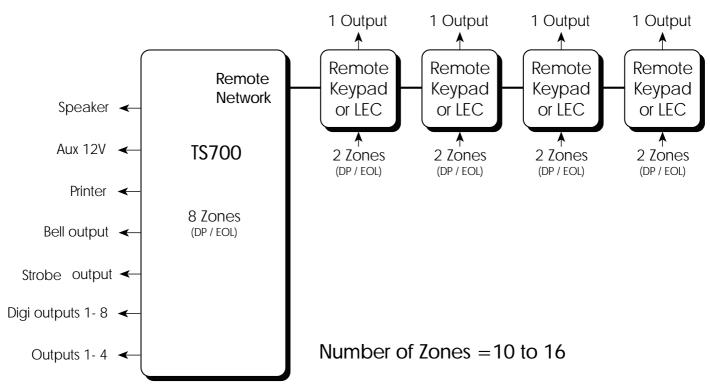


Figure 1. TS700 System Configuration

Wiring Remote Devices

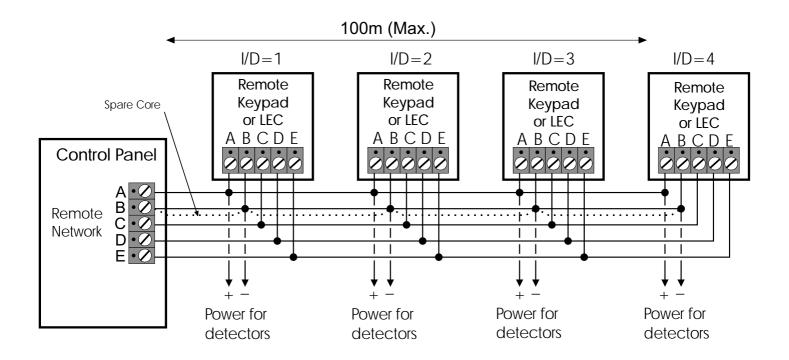
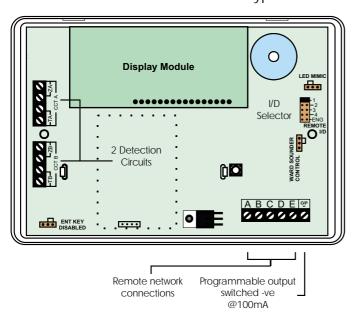


Figure 2. Remote Keypad & LEC Connections

Wiring Detection Circuits

All detection circuits may be wired as "End of Line" (EOL) or "Double Pole" (DP). Both methods can be used on the same equipment. Please refer to Network Devices Wiring Section for more details.

NETARM / NETLED Remote Keypad



NETSTAR Remote Keypad

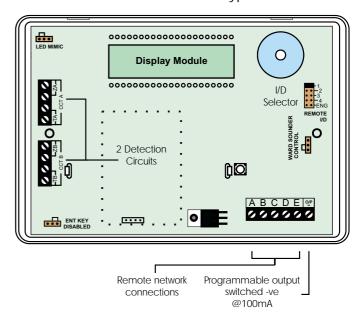


Figure 3. NETARM, NETLED, NETSTAR Remote Keypads

System Installation

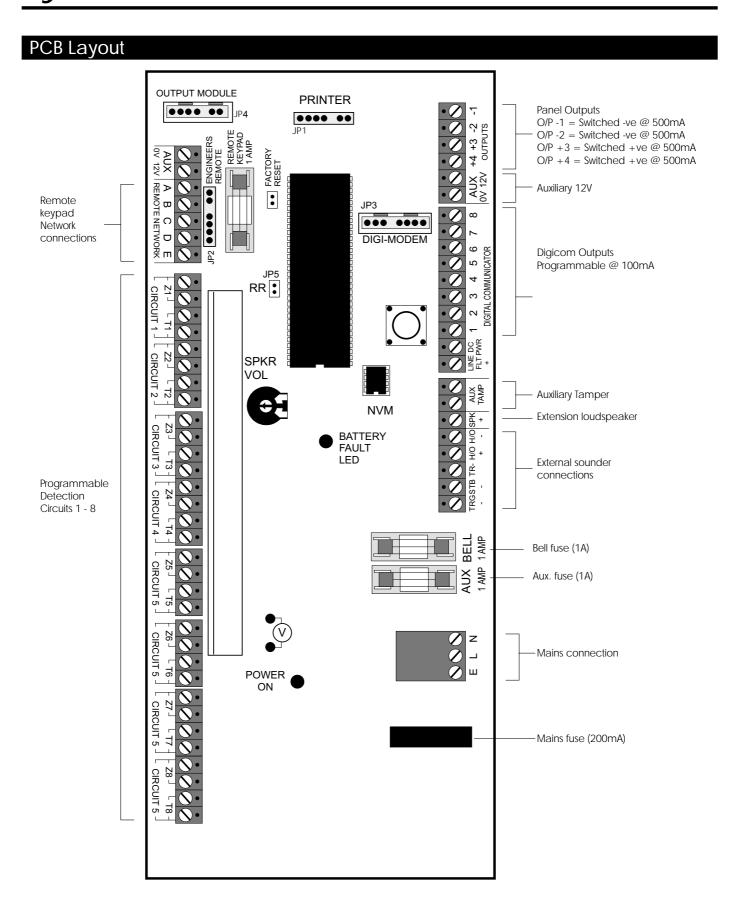


Figure 4. TS700 Main PCB Layout

Factory Defa	ault Parar	meters						
Engineer's code	1234							
Master User code	5678							
Panel and Remote Outputs	1	2	3	4	5	6	7	8
	Walk Test	Courtesy Light	Switched 12V	Detector Reset	Code Accepted	Code Accepted	Code Accepted	Code Accepted
Digicom Outputs & Channels	1	2	3	4	5	6	7	8
	Fire	PA	Alarm	Set	Eng on Site	Bell On	Tamper	Second Alarm
Detection Circuits	01: Final Exit		02: Night (access)		03-06: Night		07: Exit Terminator	
	08: PA Audible		09: Final Exit		10: PA Audible		11-16:Not Used	
System Timers	0		1		2		3	
	ACPO Delay 0 seconds		No Re-arms 0		Settling Time 07 seconds		Digicom Delay 0 Seconds	
	4		5		6		7	
	Exit Time 30 Seconds		Entry Time 30 Seconds		Bell Duration 20 Minutes		Bell Delay 0 Minutes	
	8		9					
	Double Knock 0 Seconds		Test Time 14 Days					
Setting Modes	Full Set Final Exit		Part Set A Timed Exit		Part Set B Timed Exit		Part Set C Timed Exit	
Reset Algorithm	004							
System Configuration	0		1		2		3	
	Bell output is SAB		User 1 has access to all user menus		Fire signalled at all times		24 Hour circuits are audible	
	4		5		6		7	
	Bell is delayed for 30 seconds in part set		Alarm output is cleared on reset		Setting with line fault or mains failure is allowed		System reset by user	
	8		9					
	Continuous entry and exit tones		Engineer code only for access to engineer menus					

Table 1. Factory Default Parameters

Event I	og Codes			
AA	Action Alarm (Alarm output activated)	LE	Lid Tamper or SAB tamper	
Ac **	Access Passcode (User code **entered with the last two digits reversed)	OP	System Open (unset)	
Fd.**	Alarm Delayed (the system is part set and circuit ** was activated)	0-	Omits Removed	
₽⊔**	Auxiliary Alarm (circuit number **activated)	PR.**	PA Alarm (from circuit number **)	
ЬF	Battery Fault (battery voltage below 10.5V)	PF	Power Failure (remote power LED flashes)	
ЬĿ	Bell Test	Pr	Power Restored	
[A.**	Circuit Alarm (from circuit number **)	P5.*	Part Set (area *)	
cc	Communication Complete (Plug-on only)	PE .**	Code Tamper (from remote keypad **)	
сF	Communication Failed (plug-on only)	rЯ	System re-armed	
ЕТ	Circuits Isolated (24 hour circuits)	rc	System reset by REMOTE CODE RESET	
[[].**	Circuits Omitted (circuit number **omitted)	rr.**	Remote Keypad ** removed	
dc	Date Changed	r E .**	Remote Keypad ** case tamper	
dF	Default User code 1 to 5678	SF	System Failed to Set	
리니.**	Duress Alarm (from User code **)	Sr	System on-site reset (LK1 open on power up)	
EA.**	Entry Alarm (from circuit number **)	5E.*	Area * Set (using area setting codes)	
En.**	Entry (from circuit number **)	50.**	Part set keyswitch ** operated	
FA.**	Fire Alarm (from circuit number **)	EFI.**	Tamper Alarm (from circuit number **)	
Fb.**	Fuse Blown (fuse number **)	E c	Time Changed	
Fn.**	First Knock (from circuit number **)	EF.**	Circuit ** failed test	
Fr	Factory Reset (LK1 closed on power up)	Fo	All Test circuits removed from test	
F5	Full Set	Un.*	Area * unset (using area setting codes)	
LЬ	Low Battery	∐r.**	User Code ** entered	
LF	Telephone line fault		No event	
Lr	Telephone line restored			

Key Functions

Engineer's Reset

- 1. Key in engineer code default 1234. Display shows "Engineer's Menu 1".
- 2. Press ESC display shows "ENG ONSITE".

This message will be cleared the next time a valid user passcode is entered.

Loading Defaults

Note: To return panel to factory defaults

- 1. Power down panel
- 2. Short factory restart pins
- 3. Power up battery & mains
- 4. Remove short
- 5. Enter 1234 to silence sounders
- Replace the control panel cover. At the remote keypad enter 1234. The display will show "Engineer's menu 1".

Reset User Code 1

This option allows the engineer to reset the master user passcode back to the factory default code '5678'. This feature is useful when the master user has forgotten their passcode or has inadvertently changed it.

- 1. Ensure that "Engineer Menu 2" is selected.
- 2. Press ① to Reset User 1.

Bell Test/Walk Test

Please refer to User Menu 1, No's 1 & 2 respectively.

Programming

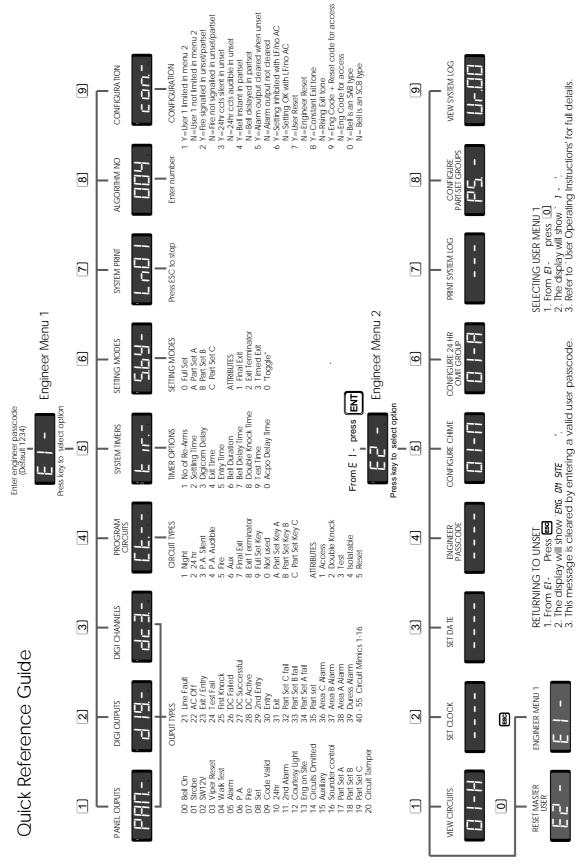


Figure 5 Quick Reference Guide

User Menus Quick Reference

!!.58

Func

The system is unset, the display shows the current time. Enter user passocde.

The display shows "Function" Press ENT within 5 seconds to select "User Menu 1".

"User Menu 1" selected.

Return To Open

1 Bell Test

2 Walk Test

3 Remote Reset

4 Change Passcode

5 Enable Chime

6 Omit 24 Hour Group

7 Omit Circuits

8 Silent set

9 Full-set

Part-set Group A

A Part-set Group B

B Part-set Group C

ENT User Menu 2

- Abandons "User Menu 1" and returns the systems to the unset (OPEN) condition.

 Allows the internal sounders, external sounder and strobe to be tested

 Allows all detection circuits to be tested without generating an alarm.

- Reset the system by exchange of 4 digit codes.

- Change your passcode.

- Enable or disable the chime option.

- Omit a pre-defined group of 24 Hour circuits.

- Select circuits to be omitted before setting the system.

- Select "silent " full set or part set.

- Full set the system.

- Part set the system with group A omitted.

- Part set the system with group B omitted.

- Part set the system with group C omitted.

- Select "User Menu 2" (master user only).



"User Menu 2" selected.

1 View Circuits

2 Change Time

3 Change Date

4 Define User Passcodes

5 Change Chime Circuits

6 Change 24hr Group

7 Print System Log

8 Configure Part-set Groups

9 View System Log

User Menu 1

- View the status of all detection circuits.

- Set the system clock.

- Set the system date.

- Define, delete user passcodes.

- Select circuits that will chime.

- Setup a group of 24 Hour circuits that can be omitted.

- Print the contents of the system log (200 events).

- Configure part-set groups A, B & C.

- View the contents of the system log.

- Return to "User Menu 1".

© Options 4, 5, 6, 7, 8 & 9 in 'User Menu 2' are only available if programmed by the installation company.