# TS2000

# Installation & User Guide



Compatible Equipment

CPA6 OM - Output Module 9040 - Loudspeaker DC54/58 - Digital Communicators

### **OVERVIEW**

#### Introduction

The Intruder Alarm Control System TS2000 is provided for large domestic and general commercial intruder systems conforming to BS 4737 part 1 1986. It is an extremely versatile system with the following facilities:

- Will monitor up to 128 zones using various types of detector device:
- 2. Will provide up to 136 output signals whose response may be programmed;
- 3. May be programmed to provide a large number of operational options and facilities.

As the system is microprocessor controlled it must be programmed initially to select the required user options such as number of zones, type of alarm and time of operation. The general principle of operation is to monitor protected zones, each having a detection circuit, to detect the circuit status, then to respond accordingly. As each zone has a circuit the terms Zone and Circuit may be considered as being synonymous but the term Circuit is generally used. Circuits may also be grouped into wards.

#### Equipment

The system consists of a number of units that are interconnected by a Control Network:

- Control Panel (CP): This is the controlling panel for the system which:
  - (a) provides power to the system;
  - (b) communicates with and monitors the state of the units connected to the Control Network and responds to alarm conditions according to the pre-programmed instructions;
  - (c) provides special outputs to a printer, a Digital Communicator, a Modem and other devices if required.

It has no front panel controls and may be sited at any convenient internal location.

- Node Unit (NU): a unit that is remote from the CP and is connected to it via the Control Network. It will monitor the status of up to four circuits and will also provide up to four programmable outputs which are controlled by the CP;
- Remote Keypad Node Unit (REM): has the same functions as the NU and in addition has a Keyboard

and a 40 character display to allow operators to control the system.

The system will consist of a CP connected, via the Control Network, to up to 32 NU's and or REM's so providing up to 128 circuits and programmable outputs each of whose functioning and use are pre-programmed. At least one REM is required to control the system.

#### **CP** Options

Additional boards may be fitted to the CP as follows:

- 1. Serial Interface Board (SIB): Provides a serial output:
  - (a) RS232 format for a serial printer:
  - (b) RS232 format to any suitable equipment:
- Parallel Interface Board (PIB): Provides up to eight output ports which may be programmed to respond to system activity and which can also be used to provide outputs to a separate Digital Communicator. It also has a (telephone) Line Fault input port.
- Digital Communicator type DC3 (Digicom): Will transfer status information from the CP to a dedicated Central Station via PSTN lines. When activated via any of its eight logic input channels it will:
  - (a) Dial one or two telephone numbers;
  - (b) Transfer an account (identity) number to the dialled station:
  - (c) Transfer channel status information.

Modem type DC3M (Digimodem): Will transfer data over PSTN lines to any suitable equipment such as a modem for a computer terminal. When activated the system will dial one or two telephone numbers and will be capable of transferring all commissioning information, event log data etc., to a remote maintenance centre. The remote maintenance centre may also call the DC3M and transfer data to it.

#### Additional Equipments

#### Remote Data Transfer

Ward Control Unit (WCU): When fitted the WCU will allow When fitted with a Digimodem type DC3M the system a group of circuits, which are designated a Ward, to be may be programmed from a remote location, and log Set and Unset using Exit and Entry routes separate from the system. The WCU is connected to the outputs and circuits of a REM or a NU and will require a separate 12V .vlaaus

Printer: An Epson printer P40-S may be connected temporarily to the CP or to the SIB to provide printout records. Other printers that accept RS232 serial data may be permanently connected to the SIB if permanent records are required.

Power Supply Unit: All power can be supplied from the TS2000 CP internal Power Supply Unit but in large systems it may be necessary to fit additional power supply units. The PSU150 has been designed for use with the TS2000 system and consists of a PSU and battery (supplied separately) and it may also have a Node Unit and a Relay Unit fitted in its enclosure.

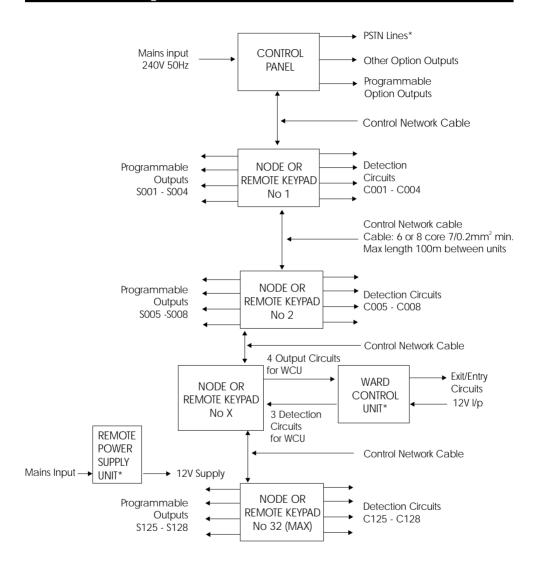
Output Modules (OM): If remote indicators or Mimic Panels containing LEDs are required then Output Modules type CPA6.OM may be connected to the CP. Each OM unit will drive up to eight LEDs and the units may be interconnected for large displays. The system may be programmed so that the LEDs indicate circuit condition or alarms and ward status if wards are programmed.

Extension loudspeakers: The REM contain a small sounder unit to provide an indication of the system status. If the volume of the sounder is insufficient (e.g. a louder exit sound is required) then an extension speaker may be fitted to the NU and this will require a Loudspeaker Drive Unit type LSD1 to be connected between the NU and the loudspeaker. A separate 12V power supply will also be required.

Relay Unit: The NU and REM programmable outputs will provide current limited drive for various facilities but in many cases it will be necessary to isolate the system from the external equipment by driving via relays. Relay Units type RM3A provide two relays, which may be energised by NU or REM programmable outputs, and which provide two sets of 'clean' change over contacts. The unit may be fitted separately or in a PSU150 case.

data transferred to it, using a dedicated program installed in a Personal Computer at that location. The use of this facility is protected by a series of passcodes and user menus.

#### Schematic Block Diagram

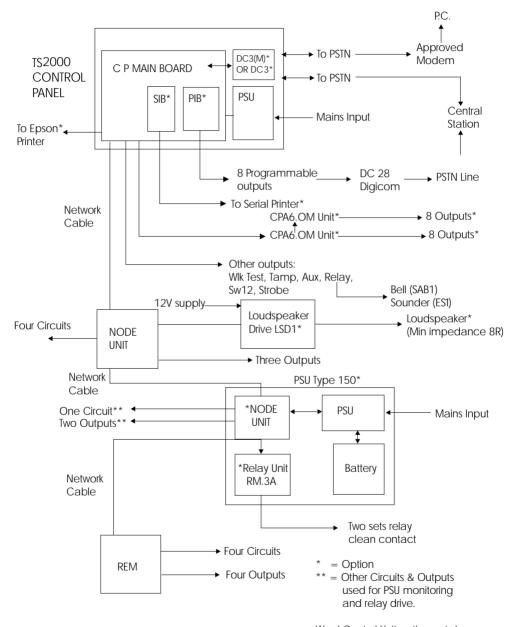


#### \*= Option

Distance between Nodes/Keypads must be less than 100m.
Distance between Control Panel and last Node/Keypad must be less than 1km

Figure 1. TS2000 Schematic Block Diagram

#### TS2000 System Options - Schematic



Ward Control Unit option not shown

Figure 2. TS2000 System Options - Schematic

#### Equipment

#### System Specification

Supply Voltage: 240V + or - 10% 30W 50 Hz

Battery: 12V 6Ah

Zones: 128 maximum

Outputs: 128 remote 8 local maximum

Unit Dimensions: CP L 395 x W 280 x D 100mm (boxed) NU/WCU L 145 x W 85 x D 50mm

REM L 220 x W 145 x D 40mm

Unit Weights: CP 4 kg

NU/WCU 220 g

REM 430 g

Environment: 0 - 40°C 95% RH n.c.

#### Control Panel (CP)

The CP comprises electronic units inside a white polycarbonate lid and a steel base which are factory assembled to hinge on the left but which may be reversed if required.

The Base Unit contains the mains input terminals and a mains transformer. Space is provided for a battery and also for a Digital Communicator. Cable entry points are provided as follows:

- 1. Four 20mm knockouts top and bottom;
- Two Holes for plastic trunking fitted with plastic inserts top and bottom;
- 3. 13mm round knockouts fitted in the plastic inserts;
- 4. Four 20 mm round holes in the back.

The lid unit contains the Main Control printed circuit board (pcb) and the Power Supply pcb which are secured on posts and on which are fitted terminals for external connections. Option Boards (SIB and PIB) may also be fitted to the main board.

Under normal conditions the unit can be positioned at any location as access will only be required for maintenance.

#### Power Supply

The CP is fitted with the system combined Power Supply and Battery Charger Unit and a battery which will provide power during a mains failure. Power arrangements are as follows:

- 1 Mains input 240V +/- 10%
- 2 Battery 12V 6Ah Sealed Lead Acid rechargeable type which is normally float charged at about 13.6V
- System regulated supply 12V with a maximum output of 1.5A. The internal supply is load protected and the external supply fused;
- 4. System internal 5V supply;
- Standby operation during a mains failure depends upon battery size and the size of the system.
   Current consumption may be calculated as follows:
  - (a) CP: normal 150mA; alarm 500mA;
  - (b) Each NU (with 4 circuits connected): normal 33mA;
  - (c) Each REM (with 4 circuits connected): normal 33mA;
  - (d) Each NU/REM in alarm load depends upon outputs used;
- 6 Power supply fault monitoring is for loss of mains supply, low system supply voltage and low battery voltage;
- 7 Fuses are fitted on the PSU as follows:
  - (a) F1: 1A QB for low voltage a.c. input;
  - (b) F2: 2A QB for 12V dc external output;
- 3 In-line Fuseholder: 1A QB for Network 12V supply;
- 9 A 1A fused terminal block is fitted for the mains input.

#### Node Unit (NU)

The NU comprises a small two part polycarbonate case containing a single pcb on which are terminal blocks. The unit is connected to the control network and is a control and connecting device for four circuits and four programmable outputs. It also contains a sounder output and a sounder mute output. It has no external controls hence it may be positioned at any convenient location as access is normally only required for maintenance. The unit is surface mounted and has cable entry points in the base top and bottom.

#### Remote Keypad Node Unit (REM)

The REM comprises a small two part polycarbonate case containing a pcb and the system controls consisting of:

- A 15 key tactile keypad for entering data and programming the system. When in use the keypad is illuminated:
- A liquid crystal display (LCD) of two lines of 20 characters each which provides system status information and gives directions when programming the system.

The unit is connected to the control network and is a control and connecting device for four circuits and four programmable outputs. The base contains a terminal block for all external connections and the unit is fitted with an internal sounder which provides local alarms and system status sounds. The unit is surface mounted and has cable entry points in the base on all four sides.

The REM's are used to control and programme the system hence they must be positioned at suitable control positions with easy access.

#### Ward Control Unit (WCU)

The WCU comprises the same case as the NU and contains a single pcb on which are terminal blocks. If fitted the unit acts as a control and interface device to allow a designated Ward to be Set and Unset using its own dedicated Exit and Entry route and units. The WCU may be positioned at any location normally adjacent to its Exit/Entry devices and to its controlling REM or NU. The unit is surface mounted and has cable entry points in the base top and bottom. It contains controls for its Ward for setting the entry time, exit time and settling time and links to select the type of exit procedure.

#### System Control Network

The CP supplies power to and monitors all the connected NU and REM via a six or eight wire Control Network. Each connected unit is 'daisy chained' to the Network and the maximum permitted distance between units is 100m but the furthest unit in a full system is limited to a total cable length of 1 km from the CP.

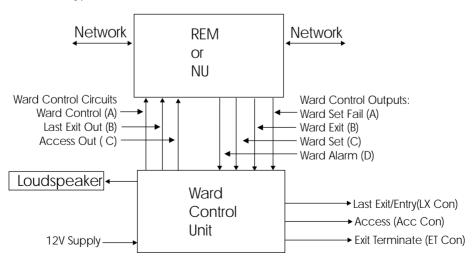
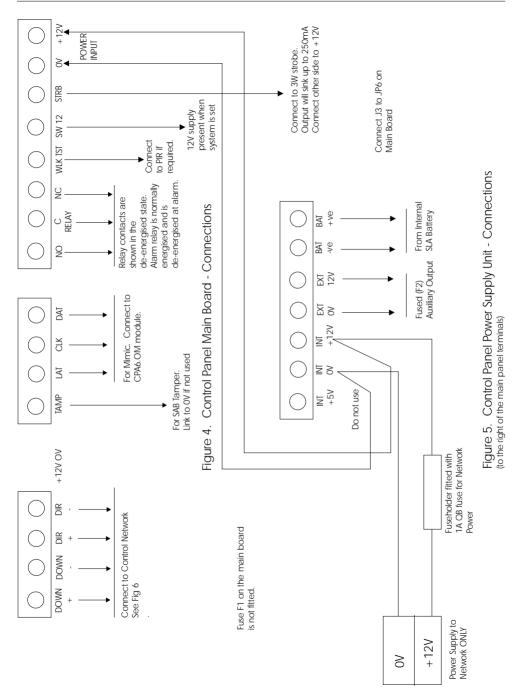


Figure 3. Ward Control Unit Schematic



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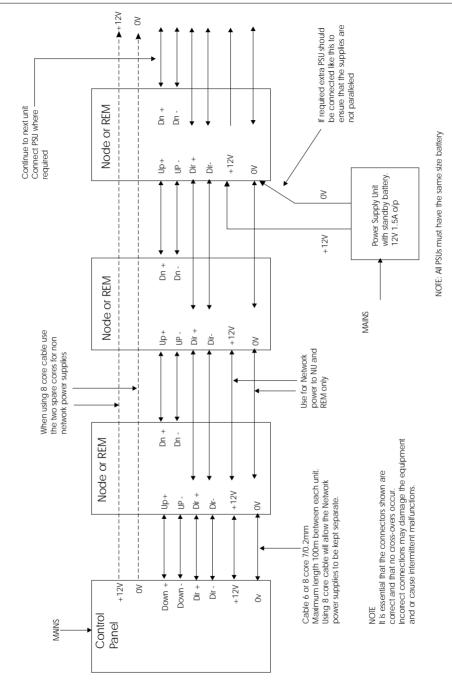


Figure 6. TS2000 Network Connections

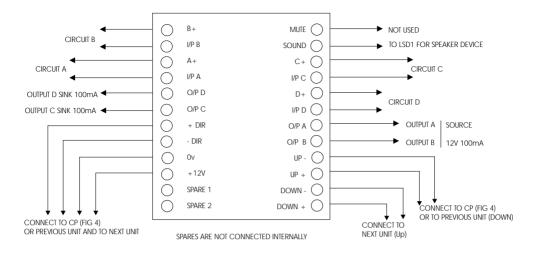


Figure 7 TS2000 Node Unit - Connections

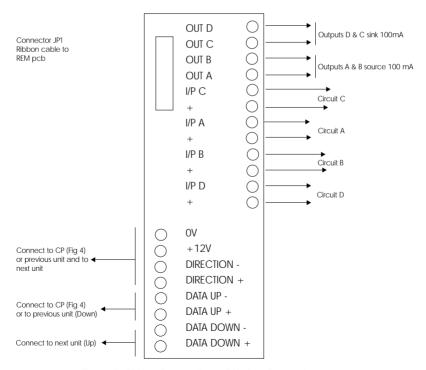


Figure 8. TS2000 Remote Keypad Node - Connections

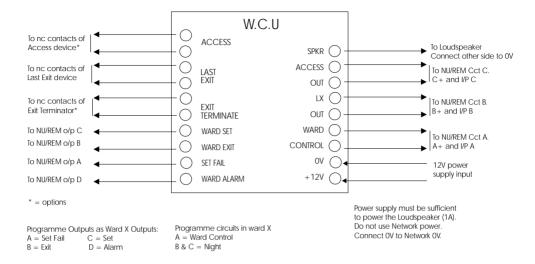
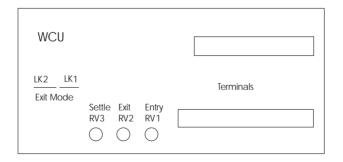


Figure 9 TS2000 Ward Control Unit - Connections



	Open	Closed		
Link 1	Timed Set	Last Exit Set		
Link 2	Last Exit Set*	Exit Terminator Set*		

<sup>\*</sup> Only if link 1 is closed

Timers:

RV1 = Entry Time 0 - 255 secs

RV2 = Exit Time 0 - 255 secs

RV3 = Exit Settling Time 0 - 40 secs

Figure 10. Ward Control Unit - Layout and Settings

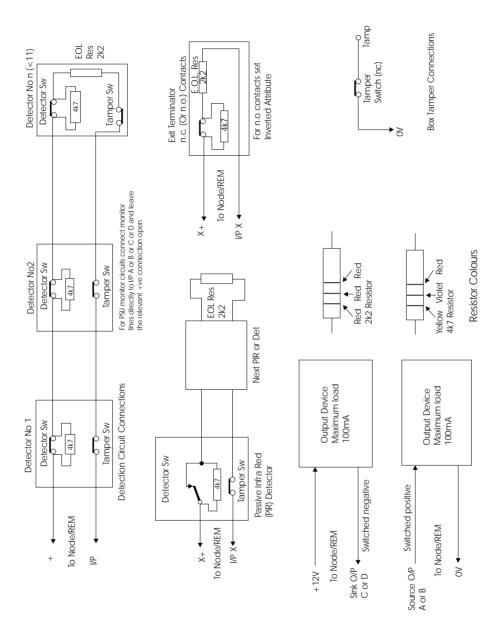


Figure 11. TS2000 Circuit and Output Connections

# Key Functions

#### **Engineer Reset**

- Enter your engineer's code default 1234, you are now in Engineer's Mode
- 2. Press 1 in quit to unset.

#### Loading Defaults

- 1. Power down panel battery and mains, close LK2
- 2. Power up panel battery and mains
- 3. Enter 1234 and open LK2
- 4. The panel is back to Factory Default Programming.

#### Bell Test/Walk Test

Please refer to page 19

#### Memory Default Values

When a CP is shipped from the factory the memory data default parameters are set to:

- Circuits: The Type and Attributes Parameters set will depend upon the number of circuits detected;
- Passcodes: Engineer 1234: Master 5678: Others unspecified;
- Timers: Exit 25 secs: Exit Settling 5 secs: First Entry 30 secs: Second entry 30 seconds: Bell delay 5 mins: Bell Duration 20 mins: Comms Delay 1.5 mins: Lights Off 5 secs: Mains Off 10 secs: Menu Timeout 30 secs: Double Knock 10 secs.

These values will also be restored if a Factory Restart occurs.

#### Control Panel Links

Link	Functions
LK1	Open: Printer to monitor Network activity Closed: Normal; Printer normal and responds to keypad commands
LK2	Open: Normal; On-site restart at power up Closed:Factory restart at power up
LK3	DC3 Monitor; Leave closed
JP5	Normally fitted with links Remove and fit Engineer's REM if required.
JP9	Open: Novram battery isolated Closed: Normal; Novram battery connected
JP13	Open: Normal Closed: Soft reset

#### Fuses

Fuse	Value	Use
PSU F1	1AQB	Low voltage ac input
PSU F2	2A QB	12V external (auxiliary) supply
Fuseholder	1A QB	Network 12V supply
Fused terminal Block	1A	Mains input

#### **Define Circuit Text**

STEP	ACTION	DISPLAY	REMARKS
1	NO*	Press < YES > to DEFINE CIRCUIT TEXT	Press YES to Define Circuit Text from the dictionary. Press NO to go to to Install DC3 menu. Press 0 to quit
		DEFINE CINCOII TEXT	NO to go to to inistali DC3 Mena. Hess o to quit
2	YES	CCT > 001 000 000 000	Press YES to accept displayed data. Press NO to change it. Enter figures or use arrow keys to enter a new circuit
3	NO	CCT 001 > 000 000 000	Text is to be changed. Enter number of the first word of text (see dictionary) then press YES to accept it
4	123	CCT 001 > 123 000 000 TEXT	First word of text entered. Press YES to accept it
5	YES	CCT 001 123 > 000 000 TEXT	First word accepted and displayed. Repeat the procedure tor the other two words
6	YES	CCT >001 123 456 789 TEXT TEXT TEXT	All words entered and accepted. Press YES to go to next circuit or use figures or arrows to select another circuit. Enter 000 to quit
7	000	CCT > 000 NOT VALID YES to continue	Press YES to go to step 1
8	YES	Press YES to DEFINE CIRCUIT TEXT	Press NO to go to Install DC3 menu. Press YES to repeat this menu. Use arrow keys to step through menus. Press 0 to quit

<sup>\*</sup> from last step of previous Menu

TCO	000 Dictionary				
132	000 Dictionary				
001	A	056	CEILING	111	ENTRANCE
002	ABOVE	057	CELL	112	ENTRY
003	ACCESS	058	CELLAR	113	<b>EQUIPMENT</b>
004	ACCOUNTS	059	CENTRAL	114	ESCAPE
005	ADMIN	060	CENTRE	115	EXIT
006	ALARM	061	CHAIR	116	EXPORT
007	ALERT	062	CHANGING	117	EXTERNAL
800	ANNEXE	063	CLASSROOM		
009	AREA	064	CLEANERS	118	F
010	ART	065	CLERK	119	FACTORY
011	ASSEMBLY	066	CLERKS	120	FAILURE
012	ASSISTANT	067	COIN	121	FAR
013	AT	068	COLD	122	FEMALE
014	ATTACK	069	COLLECTION	123	FENCE
015	ATTIC	070	COMMUNICATOR	124	FILING
016	AUTOMATIC	071	COMPUTER	125	FIRE
017	AUXILIARY	072	CONFERENCE	126	FIRST
	_	073	CONTAINER	127	FIRST-AID
018	В	074	CONTACT	128	FLAT
019	BACK	075	CONSERVATORY	129	FLOOR
020	BAGGAGE	076 077	CORNER	130	FOR
021 022	BAKERY BALCONY	077	COUNTER	131 132	FOREIGN FREEZER
022	BALLROOM	078	COUNTER CUPBOARD	132	FROM
023	BANKING	079	CUPBOARD	134	FRONT
025	BAR	080	D	134	FRONI
026	BARN	081	DARK-ROOM	135	G
020	BASEMENT	082	DATA	136	GAMES
028	BATHROOM	083	DAY	137	GARAGE
029	BAY	084	DEPARTURE	138	GARDEN
030	BEAM	085	DEPUTY	139	GATE
031	BEDROOM	086	DEPT.	140	GENTS
032	BELL	087	DESIGN	141	GIRLS
033	BELOW	088	DESK	142	GLASS
034	BESIDE	089	DETECTOR	143	GOLD
035	BLOCK	090	DEVELOPMENT	144	GOODS
036	BLUE	091	DEVICE	145	GREEN
037	BOARD	092	DINING	146	GROUND
038	BODY	093	DIRECTOR	147	GROUP
039	BOILER	094	DISPATCH	148	GUARD
040	BOTTOM	095	DOOR	149	GUN
041	BOX	096	DOUBLE	150	GYM
042	BOYS	097	DOWNSTAIRS		
043	BRANCH	098	DRAWER	151	Н
044	BROWN	099	DRAWING	152	HALL
045	BUILDING	100	DRINKS	153	HANGER
046	BUNKER	101	DRIVE	154	HEAD
047	BY	102	DRUGS	155	HEAT
				156	HIGH
048	С	103	E	157	HOME
049	CABINET	104	EAST	158	HOT
050	CALL	105	ELECTRIC	159	HOUSE
051	CANTEEN	106	ELECTRONICS		
052	CAR	107	EMERGENCY	160	I
053	CARGO	108	END	161	IN

162

163

INDUSTRIAL

INFORMATION

109

110

ENGINE

**ENGINEERS** 

054 CASH

055

CASHIER

#### TS2000 Dictionary Cont'd

	<del>,</del>				
164	INFRA-RED	217	METER	271	PORCH
165	INSIDE	218	MEZZANINE	272	POST
166	INSTRUCTORS	219	MICROWAVE	273	POWER
167	INTERIOR	220	MIDDLE	274	PRESSURE
168	INTO	221	MILK	275	PRIMARY
169	IRON	222	MINOR	276	PRIME
170	IT	223	MOBILE	277	PRINT
		224	MODEL	278	PROCESSING
171	J	225	MONITOR	279	PRODUCTION
172	JANITOR	226	MOULDING	280	PUBLIC
173	JUNIOR	227	MOVEMENT	281	PURCHASING
				282	PURPLE
174	K	228	N		
175	KEEP	229	NEAR	283	Q
176	KEYPAD	230	NEW	284	QUALITY
177	KITCHEN	231	NEXT	285	QUIET
		232	NIGHT		
178	L	233	NODE	286	R
179	LAB	234	NURSE	287	RANGE
180	LADIES	235	NURSERY	288	READING
181	LANDING	236	NORTH	289	REAR
182	LAST			290	RECEPTION
183	LAUNDRY	237	0	291	RECORDS
184	LAVATORY	238	OF	292	RED
185	LAWN	239	OFFICE	293	REFECTORY
186	LECTURE	240	OFFICER	294	REPAIR
187	LEFT	241	OIL	295	RESEARCH
188	LEVEL	242	ON	296	REST
189	L.H.S.	243	OPEN	297	RESTAURANT
190	LIBRARY	244	ORANGE	298	REVOLVING
191	LIFT	245	OUT	299	RIGHT
192	LIGHT	246	OUTER	300	R.H.S.
193	LINE	247	OUTSIDE	301	ROLLER
194	LITTLE			302	ROOF
195	LOADING	248	P	303	ROOM
196	LOBBY	249	P.A. BUTTON	304	ROUND
197	LOCK	250	PACKING		
198	LOFT	251	PAINT	305	S
199	LORRY	252	PANEL	306	SAFE
200	LOUNGE	253	PANIC	307	SALES
201	LOW	254	PARCEL	308	SCREEN
		255	PARK	309	SEA
202	M	256	PARTITION	310	SECURE
203	MACHINE	257	PASSIVE	311	SECRETARIES
204	MAGNETIC	258	PATH	312	SECRETARY
205	MAIN	259	PATIO	313	SECTION
206	MAJOR	260	PENTHOUSE	314	SECURITY
207	MALE	261	PERIMETER	315	SENSOR
208	MAN	262	PERSONNEL	316	SHAFT
209	MANAGER	263	PIR	317	SHED
210	MANAGERS	264	PIR BY	318	SHOP
211	MASTER	265	PIR IN	319	SHOW-ROOM
212	MAT	266	PIR ON	320	SHORT
213	MEDICAL	267	PLANT	321	SHUTTER
214	MEN	268	PLAY	322	SIDE
215	MESS	269	POOL	323	SILENT
216	METAL	270	POOL	324	SILVER

6TH 7 7TH 8 8TH 9 9TH 0

#### TS2000 Dictionary Cont'd

325	SITE	381	TRAP	431
326	SITTING	382	T.V.	432
327	SLIDING	383	TWIN	433
328	SMOKE	384	TYPE	434
329	SOFTWARE	385	TYPING	435
330	SOUND	386	TYRE	436
331	SOUTH			437
332	SPRAY	387	U	438
333	SPRING	388	ULTRA-SONIC	439
334 335	SQUARE SQUASH	389 390	UNDER UNIT	440 441
336	STABLE	391	UP	441
337	STAFF	392	UPPER	443
338	STAIRS	393	UPSTAIRS	444
339	STAIRWELL	394	USER	445
340	STALLS	395	UTILITY	446
341	STAND			447
342	START	396	V	448
343	STATION	397	VAN	449
344	STOP	398	VAULT	450
345	STORE	399	VISUAL	451
346	STORES	400	VOLTAGE	452
347	STROBE			453
348	STRONG	401	W	454
349	STUDY	402	WAITING	455
350	SUITE	403	WALK	456
351	SUMMER	404	WALL	457
352	SUNDAY	405	WARD	458
353	SUPPLY	406	WAREHOUSE	459
354	SURGERY	407	WASH	460
355	SWIMMING	408	WATER	
356	SWITCH	409	WAY	
357	SYSTEM	410	W.C.	
358	T	411 412	WEAPON WEEKEND	
359	TABLE	413	WEST	
360	TALL	414	WINDOW	
361	TAMPER	415	WINTER	
362	TEA	416	WITH	
363	TEACHER	417	WOOD	
364	TECHNICAL	418	WORK	
365	TECHNICIAN	419	WORKS	
366	TELLER	420	WORKSHOP	
367	TEN			
368	TEST	421	X	
369	THE			
370	THEATRE	422	Υ	
371	TICKET	423	YARD	
372	TILL	424	YEAR	
373	TO	425	YELLOW	
374	TOILET			
375	TOOL	426	Z	
376	TOP	427	ZONE	
377	TRACK	420	1	
378 379	TRADE TRAINING	428 429	1 IST	
380	TRANSPORT	429	10	
200	INAINOPURI	430	10	

#### **Programmable Ouputs**

The programmable outputs from the NU and the REM, (28) are referred to as the Node Outputs and are activated in response to various conditions or events. They are (29) programmed to respond to System, Ward or Circuit activation.

Panel outputs are from the CP and are programmed in the same way as the Node outputs. Outputs 1 to 8 are from the Parallel Interface Board, if fitted, and 9 to 16 are for the DC3 or DC3M Digicom if fitted.

The System activated outputs may be allocated to any Node (NU or REM) output or the Panel (CP) outputs. They are designated by their function and may be programmed to be active if required. The following are available:

- (1) Alarm: A system alarm is present;
- P. A.: A Personal Attack circuit or a Duress Alarm has been activated;
- (3) Set: The system is Set;
- (4) Fire: A Fire circuit has been activated;
- (5) Medical: A Medical circuit has been activated;
- (6) Tamper: A Tamper alarm is present;
- Aux: An Auxiliary circuit has been activated;
- (8) Set Fail: An attempt to set the system has failed:
- (9) Site Engr: The Engineer's passcode has been entered. The output will remain active until a User passcode is entered;
- (10) Lock-Alarm: The system has not been Set before the start of the Time Lock period;
- (11) Test-Fail: A test failure has occurred
- (12) AC Alarm: The mains supply to the PSU has not been present for the mains fail time period;
- (13) AC Off: The mains supply to the PSU is not present or there is no 12V output;
- (14) Batt Fault: During the PSU test or while the mains is off the PSU Battery voltage is low.
- (15) Bell: The CP bell output is activated;
- (16) Strobe: The CP strobe output is activated:
- (17) Switch + 12: The system is Set and is not in alarm:
- (18) Walk Test +: A Walk Test is in progress (use output A or B);
- (19) Walk Test -: A Walk Test is in progress (use output C or D);
- (20) Line Fault: A Digicom telephone line fault is present;
- (21) Time Switch: The programmed Time Switch is active;
- (22) Time Locked: The system has been Time Locked and cannot be unset;
- (23) Entry Mode: Entry mode has been initiated;
- (24) 2nd Entry: The first Entry time has timed out before a passcode entry
- (25) Exit Mode: System Exit procedure has been initiated:

- (26) Exit Setting: Final Exit setting is in progress
- (27) Exit Error: An error occurred during the exit procedure and the system cannot set
- (28) Lock Alert: The programmed Time Lock period is about to start;
- (29) Fire/Viper: Will provide 12V (100mA source) to devices which latch when activated and which are unlatched when power is removed. The output is removed for about 3 seconds when unsetting the system after an alarm at the second passcode entry;
- (30) PSU Test: Connected to remote PSU to initiate a battery test;

CAUTION: It is essential to ensure that the correct outputs that will source (supply) or sink (accept) current are selected to match the function required.

#### Menus Listing in Sequence

#### NOTES:

Users will enter menus at Menu 1

Engineer will enter menus at Menu 15

User Level 5 (Standard W) can only set and unset designated wards

Instant access to Menus from a keyboard number entry applies to Menus 1 to 9 only

Menu 2 is only available if a Ward is Set:

Menu 7 is only available if there are circuits with attribute omit

Menu 9 is only available if a printer is connected or the SIB is fitted

Menu 17 is only available if a Ward is defined Menu 24 is only available if a DC3(M) is fitted Menu 25 is only available if Engineer Reset is programmed and a reset is required

#### (Passcode) Levels:

- 1 Engineer
- 2 Master
- 3 Manager
- 4 Standard S
- 5 Standard W
- 6 Restricted

### Menus Listing in Sequence

	Menu No	Menu	Passcode Level
-	1	Start Set Sequence	1, 2, 3, 4, 5, 6
User	2	Unset Wards	1, 2, 3, 4, 5, 6
	3	View Circuits	1, 2, 3, 4, 5, 6
	4	View Event Log	1, 2, 3
	5	Select Walk Test	1, 2, 3, 4, 5
	6	Select Bell Test	1, 2, 3, 4, 5
	7	Omit/Enable Circuit	1, 2, 3
	8	Use Chime Facility	1, 2, 3
	9	Use the Printer	1, 2, 3,
	10	Alter Clock	1, 2
	11	Alter Passcode	1, 3, 4, 5, 6
	12	Define Users	2
	13	Alter Time Switch	1, 2
	14	Alter Time Lock	1, 2
Eng'r	15	Define Circuits	1
	16	Define Outputs	1
	17	Review Wards	1
	18	Define Ward Alarms	1
	19 Define Timers		1
	20	Define Panel Modes	1
	21	Use Test Options	1
	22	User Network Options	1
	23	Define Circuit Text	1, 2
	24	Install DC3	1,
	25	Reset by Remote	2

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