



# TOWER PLUS

Modular Access Control System



- ▶ 2-126 DOORS PER NETWORK
- ▶ 8,000 CARDS PER NETWORK
- ▶ 32 A/GROUPS PER NETWORK
- ▶ 16 T/ZONES PER NETWORK
- ▶ DISTRIBUTED INTELLIGENCE
- ▶ ALL MAJOR READER TYPES
- ▶ GLOBAL ANTI-PASSBACK
- ▶ FLEXIBLE BUILDING BLOCK WITH OR WITHOUT P.C.
- ▶ BUILDING MANAGEMENT CONTROL BOARD OPTION
- ▶ HOST SOFTWARE PACKAGES INCLUDING TIME & ATTENDANCE, ACCESS, BUILDING MANAGEMENT

2 door networking control unit

Integral 2 amp lock power supply with battery backup

Networking with or without a computer

Card learning technology

Multiple site applications with up to 4 site codes

4000 or 8000 card capacity

Multiple card technologies on the same network

Designed and manufactured in the UK

Global Antipassback

Simple Yes / No programming

# TOWERPLUS

- 2 TO 126 DOORS.\*
- UP TO 8000 CARD HOLDERS.
- 32 ACCESS GROUPS.\*
- 16 TIME ZONES.\*
- 8 GLOBAL ALARM LINKS.\*
- 2 DOORS IN FREE ACCESS GROUPS.\*
- 2 SPARE ALARM INPUTS PER UNIT.
- ALL MAJOR READER TYPES.
- GLOBAL A.P.B.\*
- MULTIPLE SITE CODES (4).\*
- B.M.S. COMPATIBLE.
- 1000 TRANSACTION BUFFER.\*
- 500 ALARM BUFFER.\*
- AUX ALARM OUTPUT RELAY (T8PLUS) TIMEZONE OR ACCESS GROUP ACTIVATED FOR EMERGENCY DOORS.
- RDREX MODULE ALLOWS SEPARATE IN & OUT READERS ON EACH CARD READER PORT - SAVES CABLE ETC.
- CARDHOLDER MESSAGING FACILITY.
- TOWER / INTEGRA NETWORK INTEGRATION USING WINTACS.

N.B.  
ALL FACILITIES MARKED "\*" CAN BE EXPANDED USING WINTACS OR TERMINUS SOFTWARE MULTI-NETWORK FACILITIES



MAG. STRIPE    PROXIMITY    ASSET TAGGING



Towerplus is a full featured networking access control system, utilizing a building block principle. The T4PLUS and T8PLUS are intelligent 2-door controllers of 4000 and 8000 card capacity respectively. The Towerplus units are compatible with existing T4000 and T8000 units. Individual units are linked together using an RS485 two wire communications buss. Up to 63 units may be installed on the same network allowing control of up to 126 doors.

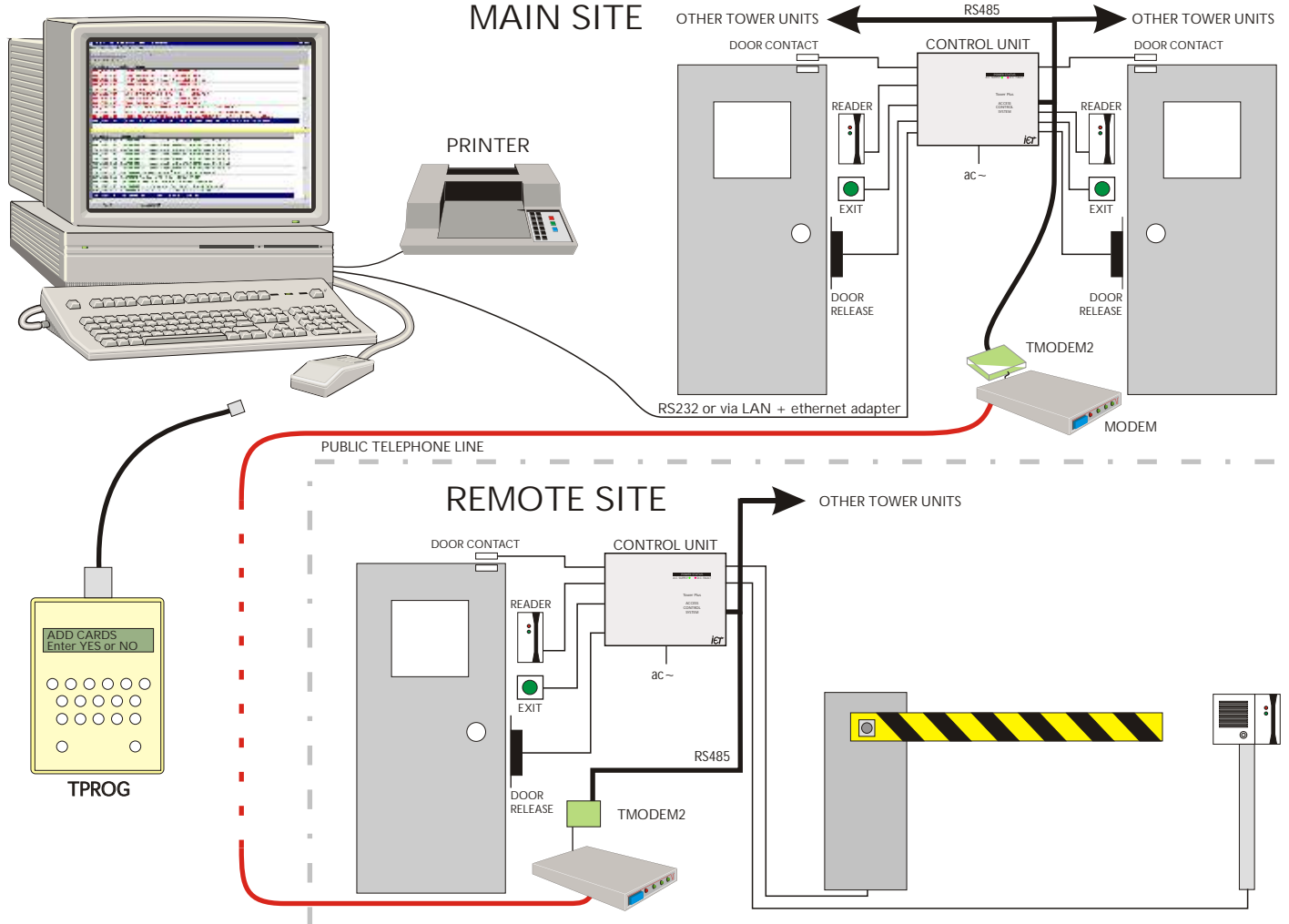
Programming is extremely simple by the use of a hand held programmer (TPROG) with simple "yes"/"no" commands and text LCD display. The TPROG can be used to program a single Tower unit or program a complete network from any Tower location. TPROG may also be used for viewing system status, alarms and the complete system data base without the need for a central PC.

Tower distributed intelligence provides high reliability due to each Towerplus unit storing the full system data base for the total network. Data is automatically transferred to any other Tower and in the event of memory failure the unit will automatically refresh from another Towerplus on the network. This also results in instant response to alarms and card transactions because all the decisions are made locally and not at a remote PC.

Automatic Timezone controlled unlocking of 2 groups of specified doors is included. This useful feature may also be card activated.

All major reader types such as Magnetic Stripe, Wiegand, Barcode and Proximity may be used with Tower offering the total solution to access control applications. Card, card and code, code only configurations are all possible. A messaging facility can be provided at the keypads allowing the PC operator to pass information to a specified card holder.

The built-in serial port allows connection to a local printer, host computer or up to four Building management system expansion units - each BMS unit providing an additional 24 alarm inputs and 16 control outputs. The same unit also provides lift control. Single operator or multi-operator client/server software versions are available. These allow total control of the network from a PC with the advantage of name files, card holder, alarm and transaction storage and comprehensive report generation for audit purposes.



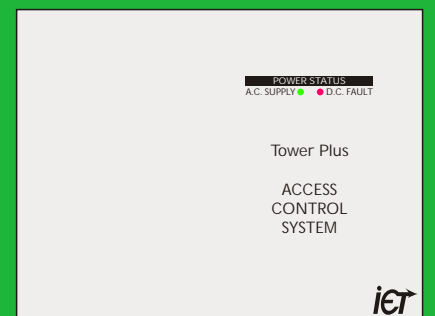
## SOFTWARE PACKAGES

The single operator Wintacs package provides an exceptionally user-friendly tool to control the network from a central PC. The multi-operator Terminus-2 client/server package (with SQL) provides even more extensive alarm, transaction, cardholder, user log and roll call reports as well as the ability to design your own reports. Optional modules for video card printing, graphic floor plans etc are available for both packages.

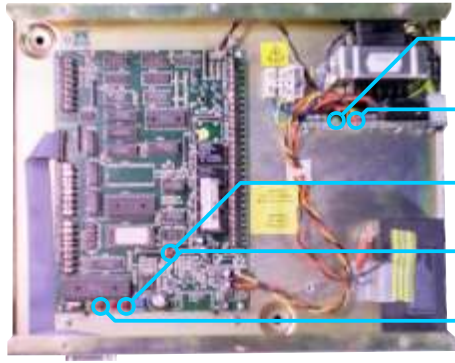
Using the Multi-Network Facilities any combination of Integra or Tower networks can be controlled by the central PC. This feature multiplies the systems total capacity, giving an enormous expansion capability to the access control system.

## BUILDING MANAGEMENT (BMS) OPTION

The IET Building Management System board offers an extra 24 alarm inputs and 16 relay outputs which can be used to monitor and control other building utilities. The BMS also provides lift control as well as integration with CCTV and intruder systems to provide the total security solution. Up to four BMS panels can be used with each Towerplus controller. The use of the optional add-on modules allows remote measurement of analogue voltages such as temperature sensors etc. This allows the access control network to provide many extra value added facilities.



# GENERAL TECHNICAL DATA



- AC POWER STATUS
- DC OVERLOAD WARNING
- LOW VOLTAGE DC POWER STATUS
- INSTALL FUNCTION INDICATOR
- NETWORK TRANSMIT STATUS

Remote Printer/BMS/Computer Port	RS232C serial @ 300 1200 4800 9600 baud selectable. Hardware handshake via DTR control. Internal removable barrier strip connector.
Programmer Port	15 way D connector on case. 25 metres max.
Network	RS485 2 wire data cable, range up to 1mile. Maximum number of units on one network 63 (equivalent to 126 doors).
Network Baud Rates	1200 2400 4800 9600 baud rate - jumper selectable.
Door Alarm Inputs	2 per door - floating contact required Alarm 1 - door contact monitoring. Alarm 2 - programmable for alarm type and sense.
Door Override Input	External momentary contact, 1 per door.
Transaction Buffer	1000 - T8PLUS, 256 - T4PLUS
Alarm Buffer	500 - T8PLUS, 279 - T4PLUS
Cable Entry	Via 20mm knockouts - 3 in top and 3 in bottom of unit.
Cable termination	Via removable barrier strips and M3 earthing studs for EMC conformance.
Mounting Requirements	Wall mounting with detachable cover. Tamper protected.
Power Requirements	200-260V AC, 40-70 Hz @ 50VA from an unswitched spur.
Internal Power Supply	2 amp 13.8V psu with electronic regulation and overload protection suitable for electric door locks, proximity card readers etc. Charger is protected by electronic shut down. The battery is protected by fuse in case of accidental short circuit. Status indication is via two front panel LED's:- Green - AC Power Red - Fault (Mains failure and/or overload)
Internal Battery Backup	9Ah battery - 5 days typically using fail secure locks. Internal current consumption 35mA quiescent.
Battery	Unit is supplied with a 12V 9 Ah maintenance free sealed lead acid gel battery as standard.
Operating Environment	Temperature 5-50° C, humidity 10%-90% non condensing.
Door Relay Outputs	Lock release - fully floating c/o contacts rated at 10 amps 24V AC or DC.
Alarm Shunt Outputs	Fully floating c/o contacts rated at 10 amps 24V AC or DC. An F.O.C. option is available to allow use as local door alarm relays.
Auxiliary Relay Output	Fully floating c/o contacts rated at 10 amps 24V AC or DC. (T8PLUS model only)
Tamper Alarm	Magnetic sensor in lid.
Cable Types	2 core shielded Belden 8451 or equivalent for Network and PC. 5 core shielded Belden 9535 or equivalent for card readers. 6 pair shielded Belden 9506 or equivalent for Cypher pads.
Unit Dimensions	340 m wide x 265mm high x 73mm deep.
Weight	6331 Kg with 9Ah battery.



For further information please contact our technical advisors

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