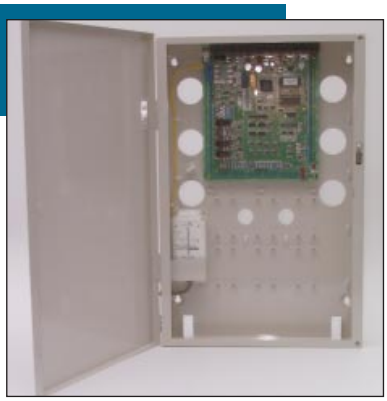
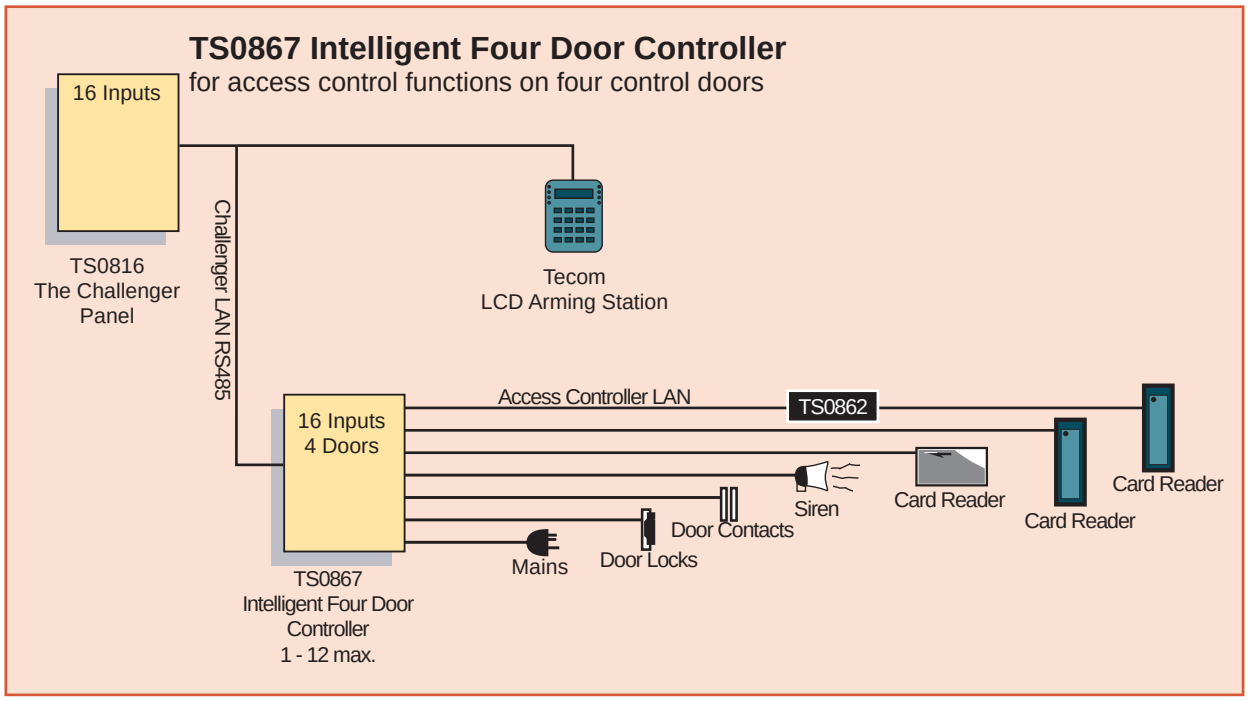
Intelligent Four Door Controller
TS0867



An intelligent real time alarm and access control monitoring unit designed to control access to 4 doors, the TS0867 supports many reader formats, including magnetic swipe and proximity. A host of programming options for the Intelligent Four Door Controller offer a level of customisation not found in other access control panels.

Connectivity

Fitted as standard to the Intelligent Four Door Controller are 4 lock strike relays and 4 reader ports for Wiegand readers. All inputs for door contacts, an egress button, 'door open too long' and alarm inputs are provided with the TS0867. Up to 12 TS0867s can be included in a Challenger system. If used in combinations of lift and door controllers the total remains 12. The TS0867 board can be housed in a TS0329 enclosure, which can be mounted up to 1.5km from the Challenger Panel. A TS0801 or TS0804 LCD Arming Station is required in a system in order to program the TS0867 Door Controller.



Intelligent Four Door Controller Features

The Intelligent Four Door Controller can operate off-line with no degradation in performance, should communications with the Challenger Panel fail. The Controller also supports many reader technologies, including, PIN , Magnetic Swipe, Proximity and Wiegand as standard, offering a wide range of options for any security situation.

1. Extensive programming features can be used to program a sequence of unique events for a desired outcome (macro logic). For example when a user badges a card lights in the area can be programmed to turn on, or a roller door can be opened when a user badges at a particular reader. Other features which can be programmed using macro logic include HVAC and lighting.
2. A relay can be programmed to a warning beeper which will activate at a pre-determined time before the access control door goes into a 'Door Open Too Long' alarm.
3. Door locks can be monitored and their status sent to a printer or Challenger as an alarm.
4. Access control procedures, like badging a card or entering a PIN, can be programmed to function only within particular blocks of time or outside those times. For example, during a period deemed as a high

security risk, granting access may require a PIN and card to be presented at a reader. At another time of low security risk, access to the same area may be gained with only the presentation of a card.

5. Access control doors can be interlocked. The operation of one door can disable the operation of another door to ensure security integrity. Outputs can be connected to display the interlocked condition of doors as required and inputs can be programmed to override interlock condition.

6. Global anti-passback. An impressive feature which communicates reader information to all controllers on a Challenger LAN, which ensures that user movements through access control doors can be tracked throughout a Challenger system.

7. Cards can be programmed for Dual custody where the presentation of one card has to be followed by the presentation of a specified other card before access will be granted. Privileged cards can be programmed to override anti-passback features and readers in 'reader disable' state. The 'reader disable' feature disables an access control door from normal operation. In a prison situation where social disorder has broken out, this feature, when employed, will prevent anyone but privileged card users from using those access control doors in 'reader disable' state.

8. The Controller supports many different lock types, and relay programming can operate those locks in a variety of ways.

9. All reader LEDs are fully programmable and can be programmed to display alarm or access statuses. Therefore a LED can be programmed to light up when access is granted or when an area is armed. The Intelligent Four Door Controller has 2 outputs for LEDs on each reader port.

10. Because doors do not always swing back into position to lock immediately after being opened the Intelligent Four Door Controller has a Settling Time feature. A good example of this is bi-directional swinging doors. Once opened, the door will not secure until it has lined up with the door lock, thus enabling a bolt to slide into its housing at the top of the door. If the access control door does not settle before being opened again the timer will re-start.

11. Controlling population within building areas can be achieved by a macro whose response can be programmed to count the number of users in a region. A reader is used to count the number of cards badged. This count is recorded, and compared against the region limit. In the case where the region limit is set to 18 the output can be programmed to respond in any way required, an alarm sounded or access denied after the 18th card has been badged.

12. All times used by the Controller can be programmed to suit a situation. Shunt times, and DOTL times are just two examples. A time can also be programmed to cater for physically challenged users who require an extended door open period. When this is set all other times will be automatically adjusted.

13. Standard Controller memory starts at 11,466 users and can be expanded to 65,536 provided the Challenger Panel is also fitted with the equivalent memory expansion module. A memory capacity of 500 time/date stamped events is standard in the Intelligent Four Door Controller for offline operation.

14. The Intelligent Four Door Controller supports multiple card site codes and programmable offsets.

15. Alarm control can be handled in a number of programmable ways. One way being the installation of on/off buttons used in conjunction with a reader or alternatively, programming a desired number of card badges to trigger arming and disarming functions. Three badges may arm and one may disarm for example.

16. System conditions can be programmed to operate outputs. Conditions such as low battery, mains fail and tamper can be programmed to trigger outputs when these states occur.

17. A reader can be programmed to record in and out times against a job number. An LCD Arming Station connected to the TS0867, will ask for a job number after a card has been badged and access time recorded. The access and exit times are assigned to the job and card number. In situations where contract workers are entering and leaving a site their movement and labour costs can be tracked more accurately using method.

18. The Intelligent Four Door Controller can be programmed to unlock a door during set hours, and only do so after someone has entered the building.

19. Where an access control door uses an exit button or PIR to unlock, this operation can be overriden when the security system is armed. In doing so, someone who might try to gain illegal access by triggering the PIR will not be able to unlock the door as the PIR has been disabled while the system is in an armed state.

20. To extend the cable run to readers, a secondary LAN connection on the Controller board allows for the addition of Smart Door Controllers and LCD Arming Stations. This has the effect of increasing the maximum reader distance up to 1.5km.

21. All inputs are four state monitored. Tamper status is monitored during unarmed periods to detect accidental or intentional activation and generate an alarm.

22. A 3Amp switch mode power supply powers the onboard door lock relays and charges two back-up batteries. Each door relay and card reader can consume up to 250mA. Ancillary connections can consume up to 750mA and comms can consume no more than 500mA.

23. Sixteen, four state monitored inputs are provided onboard the Controller, which can be programmed for any purpose. By default they are assigned to Door Open Too Long alarm, Egress and Door Contacts for each door.

24. Tamper switch connections are built onto the Controller board. The TS0329 enclosure is fitted with both front and rear tamper switches.

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26. The Intelligent Four Door Controller reader ports can be programmed to support a range of third party reader formats, such as 26 or 32 Bit Wiegand format.

27. The Controller dynamically tests the batteries contained within a TS0329 enclosure. Fuses are also monitored and their status reported to the Challenger.

28. The Intelligent Four Door Controller can be expanded to 255 programmable output relays with the connection of Tecom Relay boards. See Relays section for more details.

OPTIONS

TS0883	4 Meg Memory Expansion (P)
TS0884	8 Meg Memory Expansion (P)
TS0893-96	LAN Devices Range
TS0840	4 Way Relay Board
TS0841	8 Way Relay Board
Remote Arming Stations (RASs)	TS0003 4 LED RAS
	TS0006 Heavy Duty 4 LED Arming Station
	TS0007/8 Magnetic Card Reader Arming Stations
	TS0801/2 8 Area LCD Arming Stations
	TS0804/5 16 Area LCD Arming Stations
	TS0862 Smart Door Controller

TS0883, TS0884 Meg Memory Expansion for user database

The TS0883 and TS0884 are slotted onto the Intelligent Four Door Controller panel in spaces provided and expand memory capacity. Installing in one of these modules can increase user memory capacity to a huge 65,536, provided the Challenger Panel has the same memory expansion fitted.

Expansion Capacity	
TS0883 4 Meg Bit Memory (P)	Expansion from 11,466 Users to 20,000.
TS0884 8 Meg Bit Memory (P)	Expansion from 11,466 Users to 65,536.

(P) Preliminary stage of development

Intelligent Four Door Controller LAN Devices

LAN devices can be used to provide a range of communications alternatives on the Intelligent Four Door Controller LAN. These include electrical isolation of devices from each other, cable looping to and from a central point to ensure line integrity and to enable communication from the Intelligent Four Door Controller LAN cabling to Optical Fibre and back again. See LAN Devices section for more details.

TS0840 4 Way Relay Board

The TS0840 provides an additional 3 relays to a Challenger Panel and 4 relays to the Access Controllers or a possible 8 on a TS0820 Data Gathering Panel. When fitted to a Challenger Panel or Access Controller the TS0840 can not be combined with other relay boards. Leads for connection are supplied with the relay boards. See Relays section for more details.

TS0841 8 Way Relay Board

The TS0841 provides an additional 8 relays to the Challenger Panel, Access Controller and TS0820 Data Gathering Panel. The TS0841 and TS0842 can be used in combination, provided the maximum output count is not exceeded. Leads for connection are supplied with relay boards. See Relays section for more details.

Remote Arming Stations (RASs)

A range of Remote Arming Stations can be connected to the Challenger Panel and Access Controllers to expand and enhance both new and existing systems. These devices, when assigned to a panel, provide a range of access control, programming and status indication functions depending on programming. See Remote Arming Stations section for more details.

SPECIFICATIONS

Power Supply	
Input Voltage:	240 Volts AC Transformer and 3 pin plug. (space for two 6.5AH batteries allocated)
Testing:	Dynamic battery testing
Operating Current:	150mA maximum (no peripheral devices fitted)
Aux. Power O/P:	750mA maximum (for detectors etc.)
Communications	
Maximum distance from Challenger Panel:	1.5 km
Specified Cable for Challenger and Access Controller LAN:	Belden 8723 or equiv. A long cable run between the Challenger and LAN devices either a separate figure 8 cable must be run or a power supply fitted at the remote end; common negative
LAN Monitoring:	Continuous monitoring for Off-Line status on all devices on the LAN
Total Number of Intelligent Four Door Controllers:	12 per Challenger (must be first 12 Data Gathering Panels in the numbering sequence)
Addressing:	Individually addressed by dip switches
Operating Capacities and Connections	
Users:	11,466 (expandable to 65,000)
PIN Codes:	50 (expandable to 1000) Dependant on Challenger memory options
Door Groups:	10 (expandable to 128) Dependant on Challenger memory options
Timezones:	24

Holidays:	24
Alarm Points:	Max. 16 (four assigned to each possible access control door with default settings for Egress, DOTL and Alarm inputs)
Relays:	4 (expandable to 255 with TS0841 Relay Boards)
Number of Access Control Doors:	4
Operating Temperature:	0 - +70°C

Readers (standard)

Readers/Arming Stations:	4 onboard (expandable by a further 16 to total 20 readers)
Reader Formats:	Tecom Magnetic Swipe Format 10 Digit Club Format (Magnetic Swipe) 16 Bit Wiegand Tecom 32 Bit Format Wiegand/Proximity
Specified Cable:	6 Core Shielded RS232 Data Cable (not twisted pair)

Board Size

TS0867 Intelligent Four Door Controller:	'D' size board

Ordering Information

When placing an order please specify the following part number:

TS0867	Intelligent Four Door Controller with TS0329 Enclosure including Transformer
TS0867B	Intelligent Four Door Controller, Board Only