



## TS0091 Challenger Serial Computer and Printer Interface Installation Guide

### FEATURES

The TS0091 Challenger Serial Computer and Printer Interface is plugged onto the J18 connector of the V8 Challenger Alarm Panel TS0816 motherboard to provide two RS232 serial ports.

- Port A — computer interface for system management or upload/download programming with special PC software.
- Port B — printer interface for a local printer (independent of the PC).

### CONTENTS OF INSTALLATION KIT

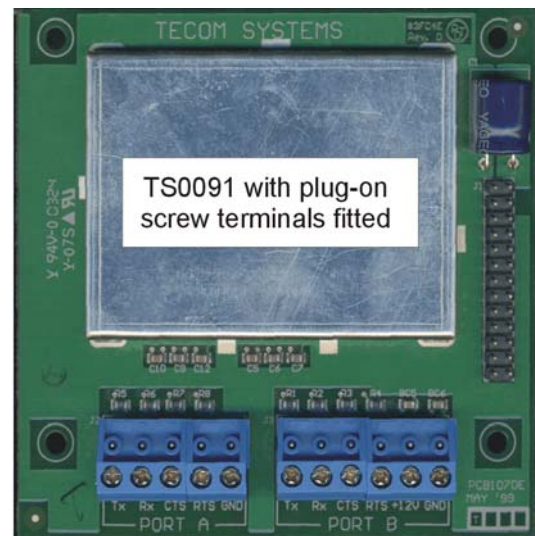
Qty	Description	✓
1	TS0091	
1	Installation Guide (this document)	
3	3-way plug-on screw terminals	
1	2-way plug-on screw terminals	
1	EMI ferrite block	
4	8 mm M3 phillips screws	
1	DB9 female connector	
1	DB9 backshell	
1	DB25 female connector	
1	DB25 backshell	
1	DB25 male connector	

### INSTALLATION STEPS

1. Disconnect power to the Challenger panel.
2. Fit EMI ferrite block to connector pins on under side of TS0091 as per illustration.
3. Fit TS0091 onto the J18 connector of the V8 Challenger Alarm Panel motherboard and secure with screws provided.

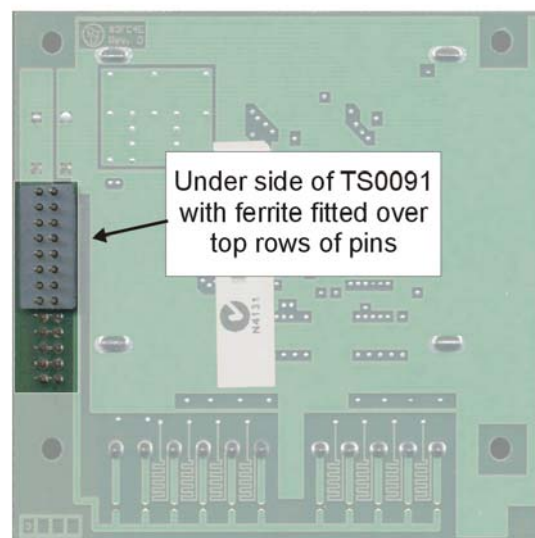
### POWER CONSUMPTION

- 25mA on standby
- 150mA current when both output ports are active



Port A  
to computer

Port B  
to printer



## CABLING AND CONNECTIONS

4-core shielded RS232 data cable (for example, Belden 9534 or Garland MC7-4S) is used to connect port A or port B to the computer or printer. Maximum cable length is 15 metres.

**Port A connections** — Use the following table as a guide to connect TS0091 to a computer using a DB9 connector (supplied).

Port A terminals		DB9 terminals (pin #)
Tx	Connect to ...	Rx (2)
Rx	Connect to ...	Tx (3)
CTS	Connect to ...	DTR (1, 4, 6)
RTS	not connected	
GND	Connect to ...	GND (5)
		Link RTS (7) to CTS (8)

**Port B connections** — Use the following table as a guide to connect TS0091 to a printer using a DB25 connector (supplied).

Port B terminals		DB25 terminals (pin #)
Tx	Connect to ...	Rx (3)
Rx	not connected	
CTS	Connect to ...	DTR (20)
RTS	not connected	
+12V	not connected	
GND	Connect to ...	GND (7)
		Link RTS (4) to CTS (5)

## PROGRAMMING

The following options must be programmed via the Challenger Installer menu (19):

- **Printer output** — menu 30 - Printer to select settings such as real-time printer output, or to print history alarm events stored in memory (back to a specified date), and more.
- **Printer baud rate and data format** — menu 30 - Printer to select printer type (baud rate and data format).
- **Computer address** — menu 9 - Communication Options to specify the computer address for the Challenger.
- **Computer security password** — menu 29 - Security Password to change the default password to prevent unauthorised access to the Challenger.

See *The Challenger Version 8 Programming Guide* for detailed instructions.

## TROUBLESHOOTING

If the TS0091 fails to print from port B, perform the following checks:

- Ensure that the Challenger is programmed to print
- Check that the voltage on the port B CTS terminal is high (+8 to +11VDC). If it does not read high, then check the cabling and the printer's DTR output settings.

The Clear To Send (CTS) terminal connects to the printer's Data Terminal Ready (DTR) output to enable the printer to indicate to the Challenger when it is ready to receive data.

## STATEMENTS



**N4131**

When installed as directed, this product conforms to the standards set by Standards Australia on behalf of the Australian Communications Authority (ACA).

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## TECHNICAL SUPPORT

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## STOCK CODE

MAINST-TS0091