

RS-232C Configuration for PTFS

The following charts illustrate the cable connections for communicating with the Precision Temperature Forcing System (PTFS) using the RS-232C communications port. These charts are valid for all of Thermonics' product lines (with the exception of the T-2420 product family).

NOTE: There are two types of RS-232 ports: DTE and DCE. The pin numbers and signal names are the same but the signal directions are opposite. The PTFS is a DTE device. Because the computer or tester from which you will communicate with the PTFS is typically also a DTE device, you must swap some of the signal lines to accommodate for the DTE to DTE connection (Null Modem).

RS-232 Hardware flow control with 8-wire Null Modem Cable.

Computer/Tester (DTE)

PTFS (DTE)

Pin	DB9-Pin Male		Signal Direction	Pin	DB9-Pin Male	
1	Carrier Detect	CD		1	Carrier Detect	CD
2	Receive Data	RD		2	Receive Data	RD
3	Transmit Data	TD		3	Transmit Data	TD
4	Data Terminal Ready	DTR		4	Data Terminal Ready	DTR
5	Signal Ground	SG		5	Signal Ground	SG
6	Data Set Ready	DSR		6	Data Set Ready	DSR
7	Request to Send	RTS		7	Request to Send	RTS
8	Clear to Send	CTS		8	Clear to Send	CTS
9	Ring Indicator	RI		9	Ring Indicator	RI

Note: Pins 1 and 6 on Null Modem cables are connected at each end to provide a Carrier Detect (CD) signal which may be necessary for use on some terminals.

RS-232 Software flow control with 3-wire Null Modem Cable.

Computer/Tester (DTE)

PTFS (DTE)

Pin	DB9-Pin Male		Signal Direction	Pin	DB9-Pin Male	
1	Carrier Detect	CD		1	Carrier Detect	CD
2	Receive Data	RD		2	Receive Data	RD
3	Transmit Data	TD		3	Transmit Data	TD
4	Data Terminal Ready	DTR		4	Data Terminal Ready	DTR
5	Signal Ground	SG		5	Signal Ground	SG
6	Data Set Ready	DSR		6	Data Set Ready	DSR
7	Request to Send	RTS		7	Request to Send	RTS
8	Clear to Send	CTS		8	Clear to Send	CTS
9	Ring Indicator	RI		9	Ring Indicator	RI

