

## Scope

This reference card provides technical information for the interface box that you purchased with your Control™ controller.

The default setting for the interface box is RS-232 synchronous mode.

## Prerequisites

This reference card assumes that you are somewhat familiar with installing equipment for your computer. It assumes that you have already configured and installed the controller.

## Specifications

Table 1 lists specifications for the interface box.

**Table 1. Interface Box Specifications**

Function	Specification
I/O ports	16 ports
Interface	RS-232 (default)
FCC certification	Complies with FCC Class A for section 15 subpart J conducted and radiated types of interface.
Dimensions	5.8" x 4.7" x 1.6"

Refer to the documentation that came with the controller for specific information about the controller. See the *Programmer's Reference* for programming information.

## Installing the Interface Box

Use the following procedure to install the interface box:

1. Pull the interface box ribbon cable through the controller's expansion slot.
2. Plug the interface box ribbon cable into the controller's ribbon cable connectors.  
To do this, snap J3 into connector P3 and snap J4 into connector P4.
3. Peel back the ribbon cable's copper shielding and position it against the inside of the mounting bracket.

4. Clamp the copper shielding against the mounting bracket by moving the adjustable portion of the mounting bracket into place.

This provides a ground for the ribbon cable.

5. Secure the mounting bracket by inserting the bottom screw.

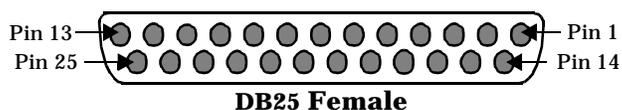
6. Replace the system cover.

If you need pinout information for the ribbon cable connector that attaches to the controller, see the documentation that came with the controller.

## Attaching the Peripherals

Use the following steps to attach your peripherals:

1. Connect your peripherals to the interface box. The ports on the interface box are numbered from 1 to 16.
2. Use the following figure and Table 2 if you need information about DB25 connector pinouts.



**Table 2. RS-232 DB25 Signals**

Pin	Signal (Ports 1-16)
2	TX
3	RX
4	RTS
5	CTS
6	DSR
7	GND
8	CD
15	TXCLK (DCE Source)
17	RXCLK
20	DTR
22	RI
24	TXCLK (DTE Source)*

\* Ports 1, 2, 9, and 10 only.

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## Shielding Cables

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The interface falls within the limits for a Class A computing device established by the FCC. To comply with these limits, the serial cables used to connect the controller to external devices should be shielded.

The shield should be connected to a metal or metallized connector shroud on each end of the cable. It is not necessary to connect the chassis ground pin of the DB25 connector.

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## Technical Support

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If you have questions about your controller, contact Control using one of the following methods.

**Corporate Headquarters:**

WEB site: [www.comtrol.com](http://www.comtrol.com)

email: [support@comtrol.com](mailto:support@comtrol.com)

FAX: (612) 631-8117

Phone: (612) 631-7654

BBS (for driver updates): (612) 631-8310

*Note: The BBS supports modem speeds up to 28.8 Kbps with 8 bits, and no parity.*

FTP site (for driver updates): <ftp://ftp.comtrol.com>

**Control Europe:**

email: [support@comtrol.co.uk](mailto:support@comtrol.co.uk) or [info@comtrol.co.uk](mailto:info@comtrol.co.uk)

BBS: +44 (0) 1869 243687

*Note: The BBS supports modem speeds up to 14.4 Kbps with 8 bits and no parity.*

FAX: +44 (0) 1869 323211

Phone: +44 (0) 1869 323220

Control has a staff of hardware and software engineers, and technicians available to help you.

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