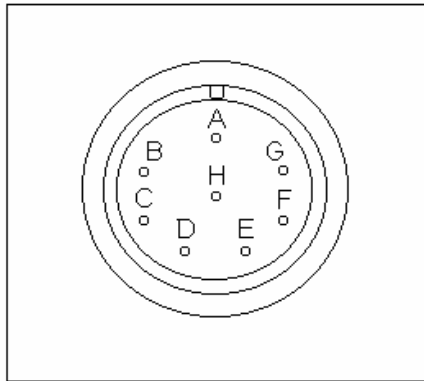


RS232 Control For Hurco BX-Series Controls

RS-232 Communications Port Connections



Front View

Pin	Signal
A	Frame Ground
B	Receive Data
C	Transmit Data
D	Clear-to-send
E	Request-to-send
F	Signal Ground
G	Not used
H	Not used

Cabling (Internal)

MS3102A20-7S	to	16 Pin Dip	MS3102A20-7S	to	16 Pin Dip
A Frame Gnd		NC	A Frame Gnd		NC
B Receive Data 1		7	B Receive Data 0		9
C Transmit Data 1		1	C Transmit Data 0		4
D CTS 1		6	D CTS 0		10
E RTS 1		2	E RTS 0		3
F Sig Com		13	F Sig Com		14
G-H (NC)		NC	G-H (NC)		NC

(External)

PC-**DB9** Connector to Hurco **MS3102A20-07P** Connector

Pin 1	N/C	A Frame / Ground(Shield)
Pin 2	Transmit Data	B Receive Data
Pin 3	Receive Data	C Transmit Data
Pin 5	Signal Ground	F Signal Ground
Pin 7	Request to Send	D Clear to send
Pin 8	Clear to Send	E Request to send

PC-**DB25** Connector to Hurco **MS3102A20-07P** Connector

Pin 1	N/C	A Frame / Ground(Shield)
Pin 3	Transmit Data	B Receive Data
Pin 2	Receive Data	C Transmit Data
Pin 4	Request to Send	D Clear to send
Pin 5	Clear to Send	E Request to send
Pin 7	Signal Ground	F Signal Ground

ULTIMAX RS232 PINOUT
(Internal cable)

COM1			COM2			
DB25 Pin	to	40-Pin	DB25 Pin	to	40-Pin	
Pin 1	-	40	Pin 1	-	20	GND
Pin 2	-	38	Pin 2	-	18	RX
Pin 3	-	36	Pin 3	-	16	TX
Pin 4	-	34	Pin 4	-	14	RTS
Pin 5	-	32	Pin 5	-	12	CTS
Pin 6	-	30	Pin 6	-	10	
Pin 7	-	28	Pin 7	-	8	SIG GND
Pin 20	-	27	Pin 20	-	7	

(External Cabling)

PC-DB9 Connector	to	Hurco DB25 Connector
Pin 1 N/C		1 Frame / Ground(Shield)
Pin 2 Transmit Data		2 Receive Data
Pin 3 Receive Data		3 Transmit Data
Pin 5 Signal Ground		5 Signal Ground
Pin 7 Request to Send		8 Clear to send
Pin 8 Clear to Send		7 Request to send

PC-DB25 Connector	to	Hurco DB25 Connector
Pin 1 N/C		1 Frame / Ground(Shield)
Pin 3 Transmit Data		2 Receive Data
Pin 2 Receive Data		3 Transmit Data
Pin 4 Request to Send		5 Clear to send
Pin 5 Clear to Send		4 Request to send
Pin 7 Signal Ground		7 Signal Ground

EMULATOR CABLING

HURCO BOARD

PC (FEMALE 9 PIN)

2 -
3 -
4 -
5 -

HURCO EMULATOR(MALE 9 PIN)

6
2
7
3 SHLD

AMTS BOARD

PC (FEMALE 9 PIN)

2 -
3 -
4 -
5 -

HURCO EMULATOR(MALE 9 PIN)

3
2
4
5 SHLD

RS232 connections on **AMTS BX-MPU** Brd.:

HURCO to PC

9-Pin to 9-Pin	9-Pin to 25-Pin
2 ----- 3	2 ----- 2
3 ----- 2	3 ----- 3
5 ----- 5 +shld	5 ----- 7 +shld

NOTE: For cables over 25 ft., connect shield to one end of the cable, either on Pin 5 of the 9-Pin or Pin 1 of the 25-Pin.