



Sony 9 pin Protocol Wiring diagrams

- 1) RS-232 to/from RS-422, [Pyramix Slave from Controller Master](#)
- 2) RS-232 to/from RS-422, [Pyramix Master to External Machine Slave](#)
- 3) USB (EasySync) or PCI RS-485 (422 Industrial) Adapter to/from RS-422, [Pyramix Slave from Controller Master](#)
- 4) USB (EasySync) or PCI RS-485 (422 Industrial) Adapter to/from RS-422, [Pyramix Master to External Machine Slave](#)

Note 1:

The wiring charts are defined so they emulate a RS-422 Sony 9 pin port, from a RS-232 port or USB/PCI 485 (RS-422 Industrial) port, so that a Controller or a Machine can be connected to.

ATTENTION

The polarity of the proposed connectors may be subject to change depending on the machine connected to. In that case, small SUB-D 9pin polarity exchanger have to be used.

Note 2:

The electric levels of a RS-232 and RS-422 port are not the same, these wiring charts do not adjust the levels but only do the cross cabling. This means that these connections may not work on some specific devices. The wiring charts are provided as is and have been observed to work in most cases but Merging cannot endorse the responsibility or certify that it will work in all cases.

Ver 5.1
28 June 2006

1) RS232 to/from RS422 acting as a Slave Port

RS422 → RS232

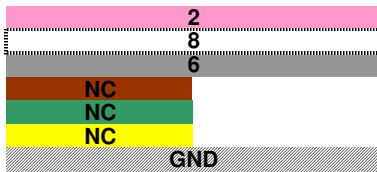
Pyramix Slave from Controller Master

FONCTION (RS 422)	RS422 SUB-D 9P MALE	→	RS232 SUB-D 9P FEMALE	FONCTION (RS232)
		NC	1	DCD/RLSD
TX-	2	→	3	TX
		NC		
		NC	4	DTR
GND	1+(9,4,6)	→	5	GND
		NC	6	DSR
		NC	7	RTS
RX-	8	→	2	RX
		NC	9	RI
	SHIELD	→	SHIELD	

NOTE:

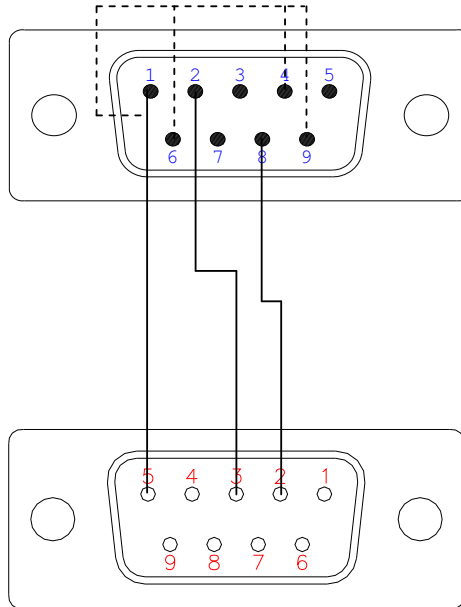
NC = NOT CONNECTED

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SUB-D 9P MALE
RS422 (Sony 9pin)

SUB-D 9P FEMALE
RS232



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2) RS232 to/from RS422 acting as a Master Port

RS232 → RS422

Pyramix Master to [External Machine Slave](#)

FONCTION (RS 232)	RS232 SUB-D 9P FEMALE	→	RS422 SUB-D 9P MALE	FONCTION (RS422)
DCD/RLSD	1	NC		
RX	2	→	2	RX-
TX	3	→	8	TX-
DTR	4	NC		
GND	5	→	1+(9,4,6)	GND
			LINKED TOGETHER	
DSR	6	NC		
RTS	7	NC		
CTS	8	NC		
RI	9	NC		
	SHIELD	→	SHIELD	

NOTE:

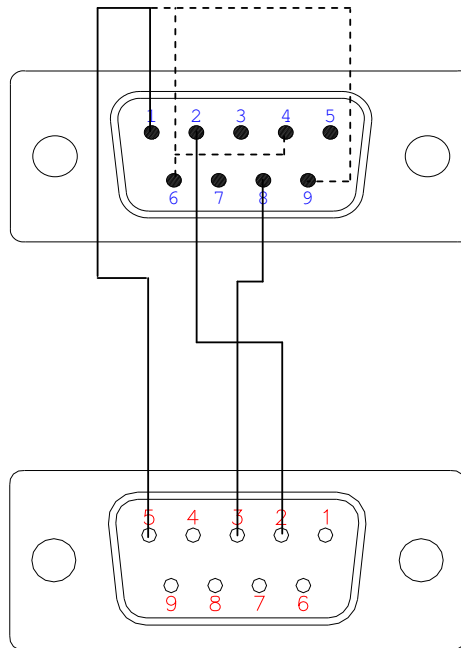
NC = NOT CONNECTED

CABLE COLOUR CODE

	2
	3
	5
	NC
	NC
	NC
	GND

SUB-D 9P MALE
RS422 (Sony 9pin)

SUB-D 9P FEMALE
RS232



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3) USB (EasySync) or PCI RS-485 (RS422 industrial) Adapter to/from a RS-422 acting as Slave port

Adapter → RS422

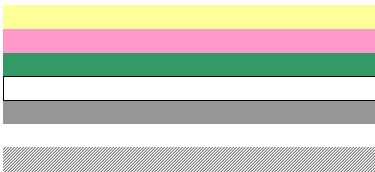
Pyramix Slave from Controller Master

FONCTION Adapter	RS422 Industrial SUB-D 9P FEMALE	→	RS422 Sony 9 pin SUB-D 9P FEMALE	FONCTION (RS422)
TXD-(A)	1	→	2	TXD-(A)
TXD+(B)	2	→	7	TXD+(B)
RXD+(B)	3	→	3	RXD+(B)
RXD-(A)	4	→	8	RXD-(A)
GND	5	→	1+ (9,4,6)	GND
RTS-(A)	6	NC		
RTS+(B)	7	NC		
CTS+(B)	8	NC		
CTS-(A)	9	NC		
	SHIELD	→	SHIELD	

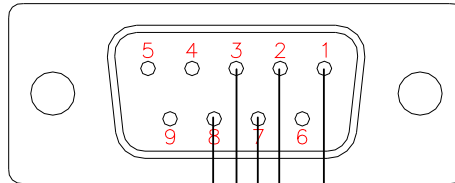
NOTE:

NC = NOT CONNECTED

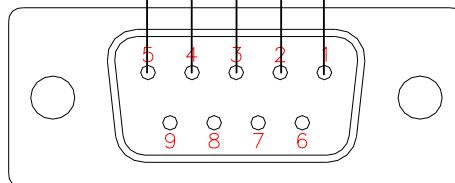
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**SUB-D 9P FEMALE
RS422 (Sony 9pin)**



**SUB-D 9P FEMALE
RS422 (Industrial)**



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4) USB (EasySync) or PCI RS-485 (RS422 industrial) Adapter to/from a RS-422 acting as a Master port

Adapter → RS422

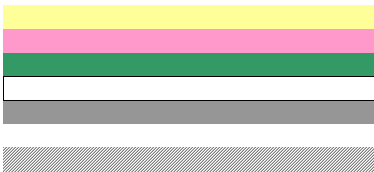
Pyramix Master to External Machine Slave

FUNCTION (Adapter)	RS422 Industrial SUB-D 9P FEMALE	→	RS422 Sony 9 pin SUB-D 9P FEMALE	FONCTION (RS422)
TXD-(A)	1	→	8	TXD-(A)
TXD+(B)	2	→	3	TXD+(B)
RXD+(B)	3	→	7	RXD+(B)
RXD-(A)	4	→	2	RXD-(A)
GND	5	→	1+(9,4,6)	GND
RTS-(A)	6	NC		
RTS+(B)	7	NC		
CTS+(B)	8	NC		
CTS-(A)	9	NC		
	SHIELD	→	SHIELD	

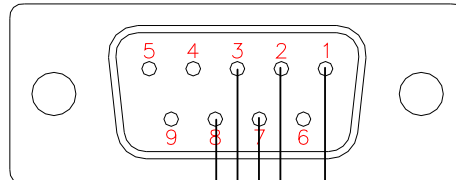
NOTE:

NC = NOT CONNECTED

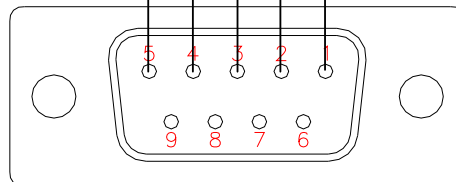
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**SUB-D 9P FEMALE
RS422 (Sony 9pin)**



**SUB-D 9P FEMALE
RS 422 (Industrial)**



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