

# **Manual**

## **RS232 > Centronics Interface**



Model  
Release

82008, 82009  
1.1

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## **RS232 > Centronics Interface 4+4K, Model 82008**

The 82008 Interface permits parallel printers or plotters to be connected to any data source having a serial RS232 port.

### **Function**

When installing, the data format of the Interface must match the format used by the data source. The RS232 parameters can be set either by using DIL switches inside the Interface (see table) or using automatic format detection in „Learn-Mode“.

### **Learn-Mode**

To initialize Learn-Mode you must press the key on the interface converter as the Interface is being turned on. After releasing the key the current setting of the Interface is output on the connected printer. Next a page of any desired text should be sent to the Interface for purposes of format detection. The detected RS232 parameters are output on the printer and automatically stored in a non-volatile EEPROM. The next the the Interface is turned on (without holding the red key down), the Interface carries out its normal function using the newly detected parameters. Learn-Mode can be repeated as often as desired. In normaly operation pressing the key once clears the built-in buffer. Pressing it twice prints out the buffer contents again.

### **Manual setting of the RS232 parameters**

In addition to Learn-Mode, the Interface allows you to set the RS232 parameters manually using DIL switches accessible by opening the Interface housing.

The meaning of the DIL switches can be taken from the table below:

baudrate	S1	S2	S3
300	off	off	off
1200	ON	off	off
2400	off	ON	off
4800	ON	ON	off
9600	off	off	ON
19200	ON	off	ON
38400	off	ON	On
76800	ON	ON	ON

data bit		S4
7		ON
8		off

parity	S5	S6
no	ON	off
odd	off	ON
even	ON	ON
learn mode	off	off

code conversion	S7	S8
No	ON	ON
GRASCI1 → IBM	off	ON
IBM → GRASCI1	ON	off

### Handshake

The Interface uses Hardware handshake and XON/XOFF handshake. To suppress one of these methods, leave the corresponding line unconnected. The built-in Overrun Buffer ensures that no data are lose even when the computer sends up to 4kB of data after the handshake stop.

### Code conversion

The Interface can convert as needed between ASCII and IBM code.

## Connectors and pinouts

The 82008 Interface is ready to plug in to 9-pole PC-COM ports. By using the included gender changer #11570 you can connect the Interface to 25-pin RS232 ports with DTE configuration (e.g. a PC).

To adapt for 25-pin RS232 ports with DCE configuration (e.g., terminal AUX port), use the included gender changer #11580.

The pin configuration for the RS232 interface can be found in the table below:

9-pin female connector	
Pin	Funktion
2	XON/XOFF output
3	data input
5	signal GND
6	handshake output
8	handshake output

25-pin female connector (with gender changer 11570)	
Pin	Funktion
2	data input
3	XON/XOFF output
5	handshake output
6	handshake output
7	signal GND

25-pin male connector (with gender changer 11580)	
Pin	Funktion
2	XON/XOFF output
3	data input
4	handshake output
7	signal GND
20	handshake output

**Technical Data**

Baud rate:	300..76800 baud
Data format:	7,8 data bits, No, Even, Odd Parity
Handshake:	DTR-, XON-/XOFF-Handshake
Buffer:	8 kB (4 k + 4 k overrun buffer)
Power supply:	AC adaptor provided
Current draw:	approx. 50 mA
Input:	9-pole SUB-D female plug-in ready for a PC, incl. 2m connection cable on the device
Output:	36-pin Centronics male, Interface can be plugged directly into the printer
Housing:	Plastic enclosure, 75x61x20 mm
Weight:	425 g incl. power supply
Packing list:	Interface RS232 > Centronics AC adaptor for office use Mini Gender Changer, #11570 Mini Gender Changer, #11580

## **RS232 > Centronics Interface 1+1K, Model 82009**

The 82009 Interface permits parallel printers or plotters to be connected to any data source having a serial RS232 port.

### **Function**

When installing, the data format of the Interface must match the format used by the data source. The RS232 parameters can be set either by using DIL switches inside the Interface (see table) or using automatic format detection in „Learn-Mode“.

### **Learn-Mode**

To initialize Learn-Mode you must press the key on the interface converter as the Interface is being turned on. After releasing the key the current setting of the Interface is output on the connected printer. Next a page of any desired text should be sent to the Interface for purposes of format detection. The detected RS232 parameters are output on the printer and automatically stored in a non-volatile EEPROM. The next the the Interface is turned on (without holding the red key down), the Interface carries out its normal function using the newly detected parameters. Learn-Mode can be repeated as often as desired. In normaly operation pressing the key once clears the built-in buffer. Pressing it twice prints out the buffer contents again.

### **Manual setting of the RS232 parameters**

In addition to Learn-Mode, the Interface allows you to set the RS232 parameters manually using DIL switches accessible by opening the Interface housing.

The meaning of the DIL switches can be taken from the table below:

baudrate	S1	S2	S3
300	off	off	off
1200	ON	off	off
2400	off	ON	off
4800	ON	ON	off
9600	off	off	ON
19200	ON	off	ON
38400	off	ON	On
76800	ON	ON	ON

data bit	S4
7	ON
8	off

parity	S5	S6	S7	S8
no	ON	off	ON	ON
odd	off	ON	ON	ON
even	ON	ON	ON	ON
learn mode	off	off	ON	ON

The number of stop bits may be any. Only the format *7 data bits, no parity, 1 stop bit* is not supported by Learn Mode of the interface.

## Handshake

The Interface uses Hardware handshake and XON/XOFF handshake. To suppress one of these methods, leave the corresponding line unconnected. The built-in Overrun Buffer ensures that no data are lose even when the computer sends up to 1kB of data after the handshake stop.



## Connectors and pinouts

The 82009 Interface is ready to plug in to 9-pole PC-COM ports. By using the included gender changer #11570 you can connect the Interface to 25-pin RS232 ports with DTE configuration (e.g. a PC).

To adapt for 25-pin RS232 ports with DCE configuration (e.g., terminal AUX port), use the included gender changer #11580.

The pin configuration for the RS232 interface can be found in the table below:

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25-pin female connector (with gender changer 11570)	
Pin	Funktion
2	data input
3	XON/XOFF output
5	handshake output
6	handshake output
7	signal GND

25-pin male connector (with gender changer 11580)	
Pin	Funktion
2	XON/XOFF output
3	data input
4	handshake output
7	signal GND
20	handshake output

**Technical Data**

Baud rate:	300..76800 baud
Data format:	7,8 data bits, No, Even, Odd Parity
Handshake:	DTR-, XON-/XOFF-Handshake
Buffer:	2 kByte (1 kByte + 1 kByte overrun buffer)
Power supply:	AC adaptor provided
Current draw:	typ. 40 mA
Input:	9-pole SUB-D female plug-in ready for a PC, incl. 2m connection cable on the device
Output:	36-pin Centronics male, Interface can be plugged directly into the printer
Housing:	Plastic enclosure, 75x61x20 mm
Weight:	425 g incl. power supply
Packing list:	Interface RS232 > Centronics AC adaptor for office use Mini Gender Changer, #11570 Mini Gender Changer, #11580