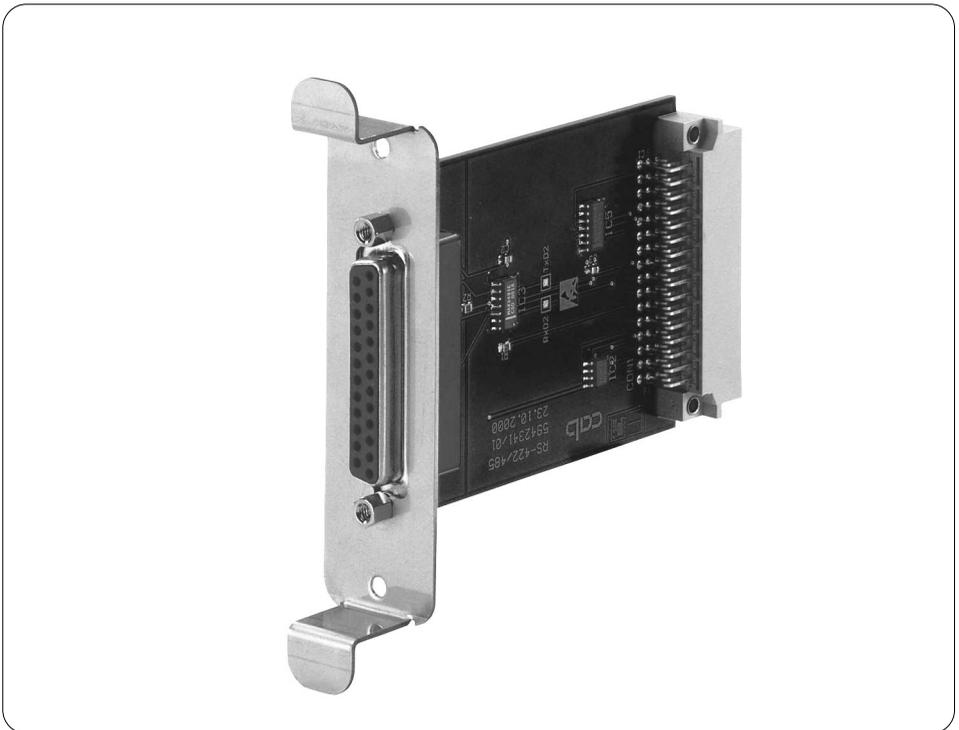


RS-422/485 Interface

Art.-No. 594 2360

Operator's Manual

Edition 1/02



Product Description

The RS-422/485 interface board is an optional module for the printers of the A-Series and makes it possible to control the printers by the industrial serial interfaces RS-422 or RS-485. The RS-422 interface should be used if the computer is more than 50ft (15m) away from the printer. The RS-485 interface is provided for using the printer as part of a networked system.



NOTICE !

The standard interfaces (RS-232, bi-directional parallel) are still useable, when the RS-422/485 interface board is installed. The printer auto-senses which interface is actually used.

Technical Data :

RS-422	Baud rate	1.200 - 230.400 Baud
	Handshake	XON/XOFF, ---
	Data bits	8 Bit
RS-485	Baud rate	1.200 - 230.400 Baud
	Network address	A ... Z
	Data bits	8 Bit

Installation of the Interface

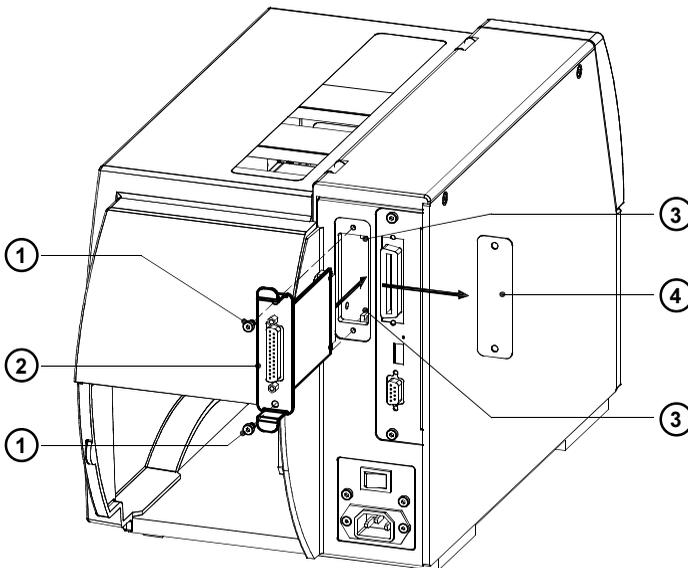


Fig. 1 Installation of the RS-422/485 Interface



WARNING !
Make sure the power to the printer is OFF !

1. Loosen the screws (1) and remove the plate (4)
2. Align the RS-422/485 Interface (2) with the guides (3).
3. Slide the interface into the printer completely until it stops.
4. Secure the interface using the screws (1).

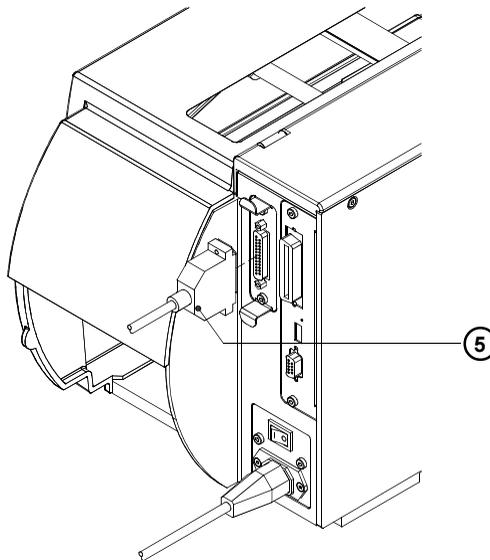


Fig. 2 Connecting the Interface Cable

5. Connect the printer to the computer with a suitable serial interface cable (5). You will find the description of the interface connector in the chapter „Pin Assignment of the Interface Connector“.
6. Power the printer on.
7. Select the required interface settings as described in the chapter „Configuration“.

Configuration

Once the RS-422/485 interface is installed, it will automatically be recognized by the printer. The interface settings can be configured to suit the individual requirements in the „Setup“ menu. When the RS-422/485 interface is installed, in the menu „Interfaces“ the parameter „RS-422/485“ will appear on the display.



NOTICE !

Pay attention to the instructions for configuration in the Printer's Operator Manual.

Setup			
Interface			
Parameter	Meaning	Selection	
65 ↓ A	Character set	Select the character set table (Detailed information in the Printer's Operator Manual)	
 232	RS-232	Setting of the RS-232 interface (Detailed information in the Printer's Operator Manual)	
 422	RS-422/485	Select the optional interface	RS-422 RS-485
 422	Baud rate	Speed of data transfer Default : 57.600	230.400 ... 1.200
 422	Handshake	Handshake protocol Default : XON/XOFF	XON/XOFF ---
 485	Baud rate	Speed of data transfer Default : 57.600	230.400 ... 1.200
 485	Network addr.	Address in the RS-485 network Default : A	A ... Z

Table 1 Overview of the „Interfaces“ menu

1. Switch from „Online“ mode to the offline-menu by pressing the **[MODE]** key.
2. Press the **[↑]** key or the **[↓]** key to reach the „Setup“ menu. Press the **[←]** key.
3. Select the secondary „Interfaces“ menu by pressing the **[↑]** key or the **[↓]** key. Press the **[←]** key.
4. Press the **[↑]** key or the **[↓]** key to reach the menu "RS-422/485".
5. Press the **[←]** key. On the display is shown, whether the RS-422 or the RS-485 interface is selected. For changing the selection press the **[↑]** key or the **[↓]** key and confirm it with the **[←]** key.

6. If the RS-422 interface was selected, go on by pressing the **[↓]** key to reach the parameters „Baud rate“ and „Handshake“. The settings can be made in the same way as described in step 5.
7. If the RS-485 interface was selected, go on with the setting of the parameters „Baud rate“ and „Network address“.
8. After the settings are finished, return to the „Online“ mode by pressing the **[←]** key several times.



NOTICE !

If you use an A3 printer, the baud rate setting affects the baud rate of all serial interfaces (RS-232, RS-422, RS-485) !

Pin Assignment of the Interface Connector

The RS-422/485 interface board is equipped with a 25 pin SUB-D connector.

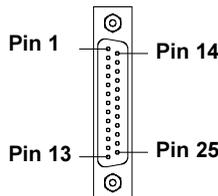


Fig. 3 Connector of the RS-422/485 interface board

Pin	Signal	Function
1	CG	Protective Ground
7	GND	Logic Ground
9	TDATA+	Transmit Data +
10	TDATA-	Transmit Data -
13	GND	Logic Ground
18	RDATA+	Receive Data +
19	RDATA-	Receive Data -

Table 2 Pin Assignment of the RS-422/485 interface connector

Interface Cables

To control the printer by RS-422- or RS-485 interface, only the signals TDATA+, TDATA-, RDATA+ and RDATA- are necessary.

Check the pin assignment of the interface of your computer and use the pin assignment of the RS-422/485 interface connector as shown in table 2 to obtain a suitable cable.

The pins of TDATA+ and RDATA+ and the pins of TDATA- and RDATA- have to be connected with each other. For long transmission distances it is recommended to terminate the lines.

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Technische Änderungen vorbehalten

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