

Installation Instructions

*P/N 1-960331-02
Edition 3
September 1998*

EasyCoder 201 II Industrial Interface Kit

 **ntermec**

A **UNOVA** Company

EasyCoder 201 II – Installation Instructions

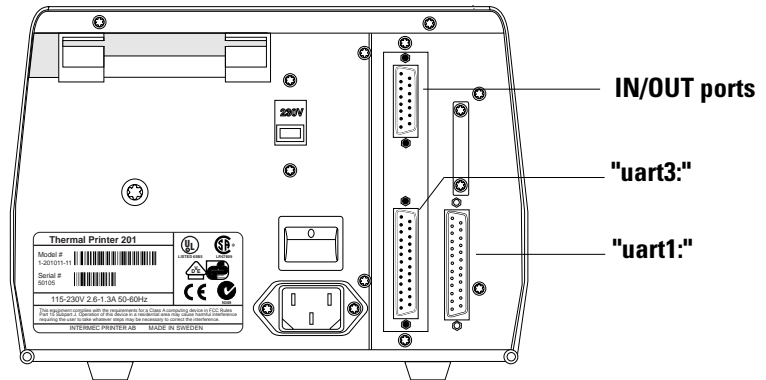
INDUSTRIAL INTERFACE KIT

Introduction

The Industrial Interface Board adds one serial communication port ("uart3:") and one connector with four IN and four OUT ports to the standard serial communication port ("uart1:").

The IN/OUT ports provide an interface between the printer and various types of external equipment, such as gates, conveyor belts, wrappers etc. The input and output signals can be read or initiated by means of *Intermec Fingerprint* instructions. Thereby the printer can be used to control the external devices – or be controlled by them – according to the program.

The printer's firmware detects when an Industrial Interface Board is installed and adds communication and buffer setup options for the communication port "uart3:".



When an Industrial Interface Board is fitted, the following types of interfaces become available:

"uart1:"	<i>Fitted on printer's CPU pcb.</i>
RS 232C	Standard
20 mA Current Loop	Option. Additional opto-couplers required.
"uart3:"	<i>Fitted on Industrial Interface Board.</i>
RS 232C	
IN/OUT connector	<i>Fitted on Industrial Interface Board.</i>
4 input channels	The software can read the status of four different input signals.
4 output channels	The software can set four different signals to either open or closed contact and also read their status.

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Industrial Interface Kit
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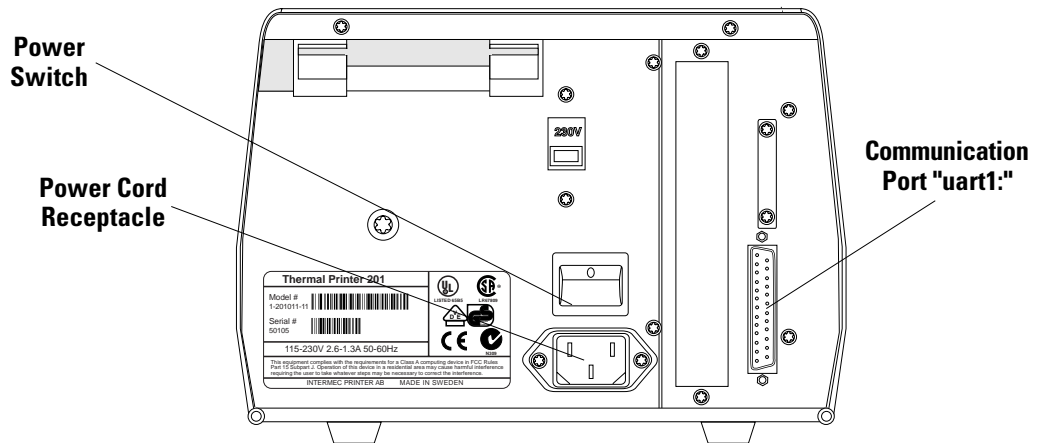
The Industrial Interface Kit consists of:
1 Interface board assy. including 1 cover plate and 4 screw locks
2 Screws
Installation Instructions

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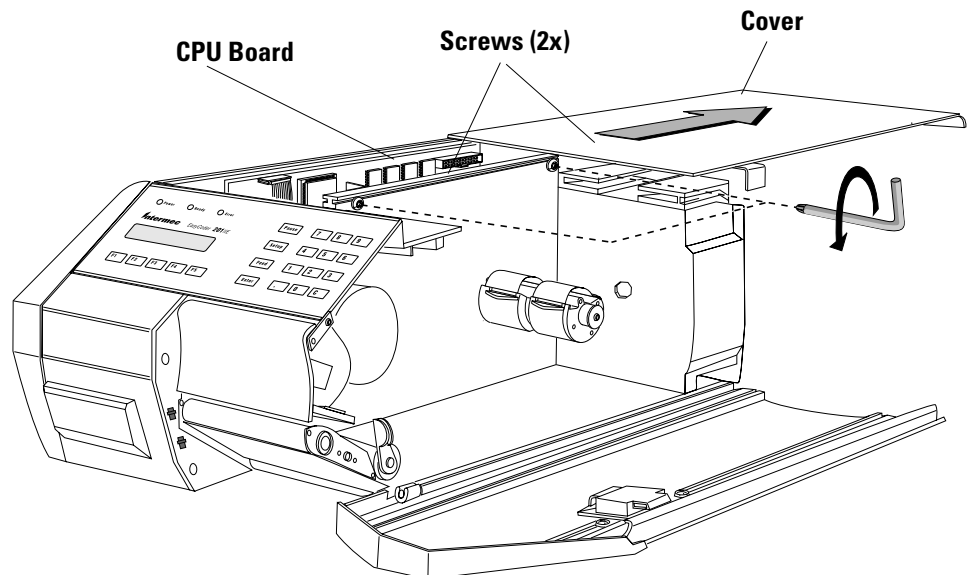
INDUSTRIAL INTERFACE KIT, cont'd.

Step-by-Step Installation Instructions

- ❑ Turn off the power and remove the power cord.
- ❑ Remove the communication cable from communication port "uart1:".



- ❑ Open the right hand door.
- ❑ Loosen the two screws that lock the cover.
- ❑ Pull the cover straight back and remove it completely.



- ❑ Open the left-hand door.

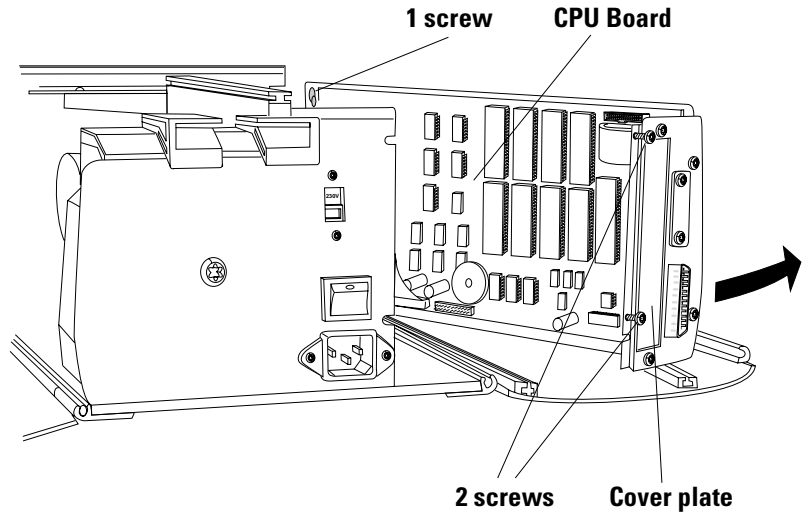
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INDUSTRIAL INTERFACE KIT, cont'd.

Step-by-Step Installation Instructions, cont'd.

- ❑ Loosen the three screws that hold the CPU board assy. and swing the unit outwards as illustrated.



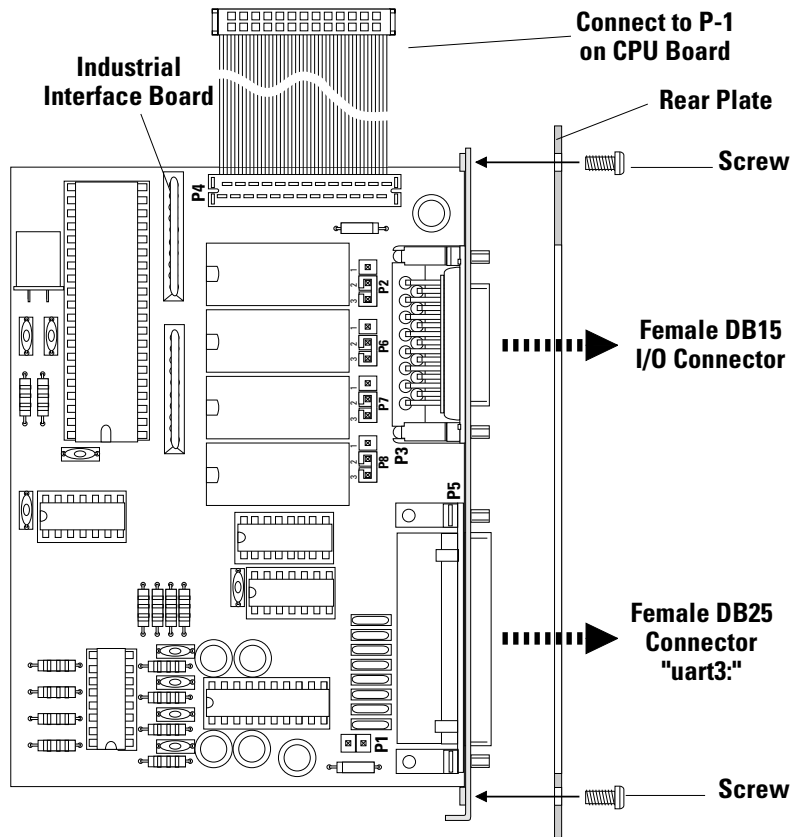
- ❑ Remove the connector cover plate.
- ❑ Make sure that the CPU board is strapped and equipped for the desired type of communication on port "uart1:" (see the *EasyCoder 201 II* Technical Manual). Once the interface board has been fitted, it will be difficult to access the rear part of the CPU board.
- ❑ Fit the required straps on the Industrial Interface Board as described on page 5.
- ❑ Connect the cable from the interface board to connector **P-1** at the top rear corner of the CPU board. Be careful so the interface board and the CPU board do not come in contact with each other, which possibly may cause damage or short-circuiting.
- ❑ Fit the interface board assembly to the printer's rear plate from the inside as illustrated on next page using the screws included in the kit.
- ❑ Reassemble the printer in reverse order.
- ❑ Connect the communication cables to their respective connectors. Please refer to page 6 for pinout descriptions.

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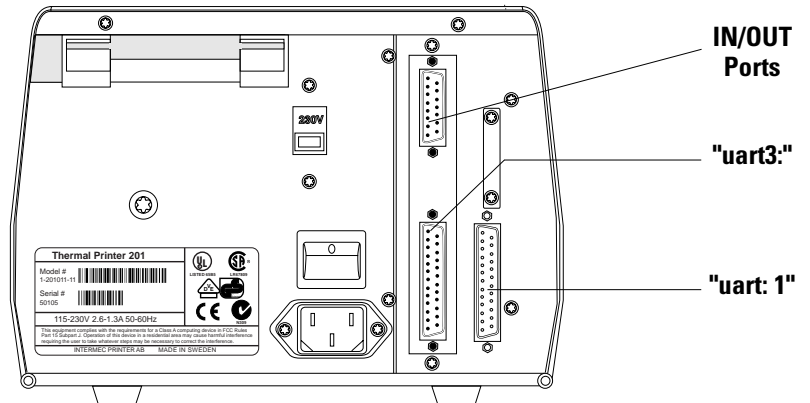
EasyCoder 201 II – Installation Instructions

INDUSTRIAL INTERFACE KIT, cont'd.

Step-by-Step Installation Instructions, cont'd.



- Connect the power cord and turn on the power.
- If you intend to use the communication port "uart3:" (RS 232C), set up its communication and buffer parameters as described in the *EasyCoder 201 II* Technical Manual.

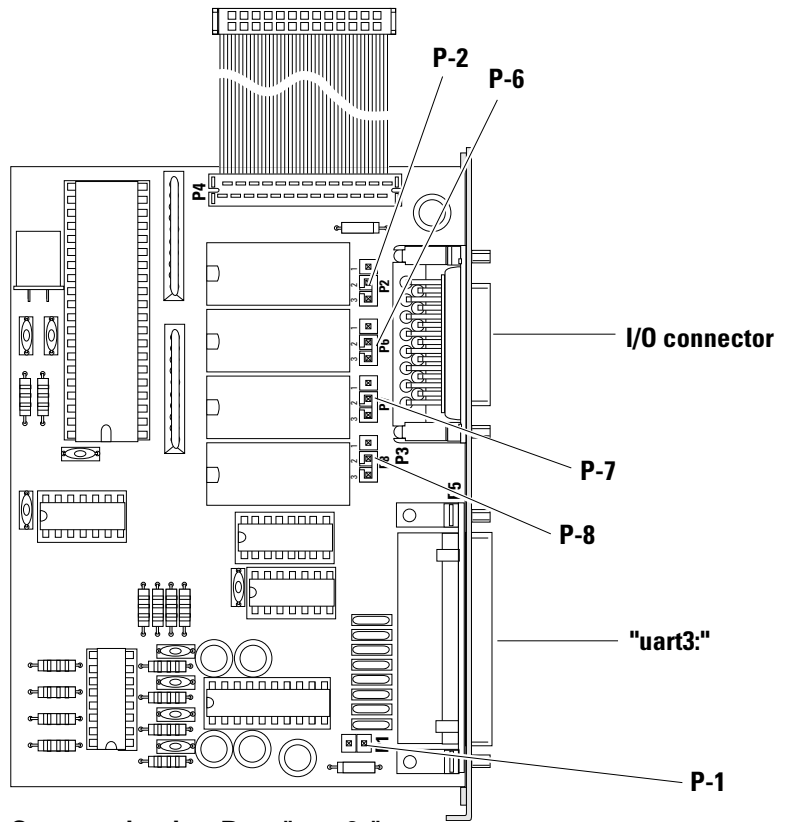


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INDUSTRIAL INTERFACE KIT, cont'd.

Straps



Communication Port "uart3:"

RS 232C:

There are no straps for controlling the RS 232C interface on "uart3:".

External +5V:

External +5V (max. 200 mA) can be made available on pin 16 by fitting a strap on **P-1**.

Be careful not to enable this option unintentionally, which may cause harm to the connected terminal, computer or other device.

In/Out Connector

In/Out port 201-204:

One relay for each port switches the OUT signal to open or closed as PORTOUT ON/OFF statements are executed in the program.

Four straps, **P-2**, **P-6**, **P-7** and **P-8**, control the relation between relay and output signal on output ports **201–204** respectively:

PORTOUT stmt	Strap between pins	OUT signal
PORTOUT (<nexp>) ON	1–2 (upper position)	Open
PORTOUT (<nexp>) ON	2–3 (lower position)	Closed
PORTOUT (<nexp>) OFF	1–2 (upper position)	Closed
PORTOUT (<nexp>) OFF	2–3 (lower position)	Open

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INDUSTRIAL INTERFACE KIT, cont'd.

Connector Configuration

"uart3:" is a DB25 female connector.

The **In/Out connector** is a DB15 female connector.

The mounting holes are connected to chassis ground.

Pin	"uart3:" DB25 female	Remarks	Pin	In/Out connector DB15 female	Remarks	
1	GNDC	Cable shield	1	OUT 201	See example on next page	
2	TXDB	Transmitted data from printer	2	OUT 201		
3	RXDB	Received data to printer	3	OUT 202		
4	RTSB	RTS from printer	4	OUT 202		
5	CTSB	CTS to printer	5	OUT 203		
6	DRSB	DSR to printer	6	OUT 203		
7	GNDI	Signal ground	7	OUT 204		
8	–	not used	8	OUT 204		
9	–	not used	9	IN 101		See example on next page
10	–	not used	10	IN 101		
11	–	not used	11	IN 102		
12	–	not used	12	IN 102		
13	–	not used	13	IN 103		
14	–	not used	14	IN 104		
15	–	not used	15	IN 103/104		
16	+5VEXT	+ 5V max 200 mA*	OUT signals are controlled by means of PORTOUT (<nexp>) ON OFF statements. IN and OUT signals are read by means of PORTIN (<nexp>) functions. <i>See Intermec Fingerprint 6.13 Reference Manual.</i>			
17	–	not used				
18	–	not used				
19	–	not used				
20	DTRB	DTR permanently high				
21	–	not used				
22	–	not used				
23	–	not used				
24	–	not used				
25	–	not used				
*/. If strap fitted on P-1						

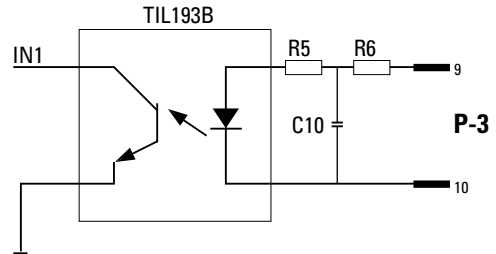
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INDUSTRIAL INTERFACE KIT, cont'd.

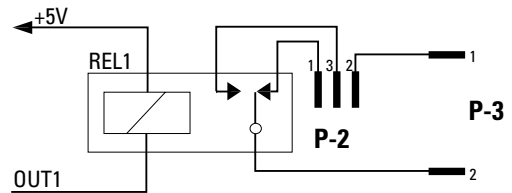
Connector Configuration, cont'd.

Example of an IN port



Signal	Min.	Typical	Max.
Input Voltage High	10V	24V	40V
Input Voltage Low	-1V	0V	1V

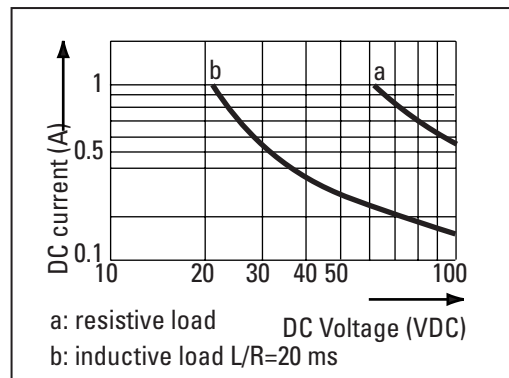
Example of an OUT port



Max AC Load Breaking Capacity

Current	max. 1 A
Switching power	max. 100VA AC
Switching voltage	max. 100V AC

Max. DC Load Breaking Capacity



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NOTES

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