

T2000-RS232

Interface card RS910

Serial Interface RS232 for Testomat[®] 2000 to control a Protocol Printer

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Description

By using the interface module RS232-2000 for Testomat® 2000 a protocol printout can be produced on a printer with a serial connection, or data transferred onto a PC. Current measured data, limit value excesses and alarm messages are issued. Output data and formats are described on the next page.

A protocol printout is possible with the following program versions of the Testomat® 2000:

Testomat® 2000 (standard): 39x042

Testomat® 2000 DUO: 55x012

Testomat® 2000 THCl: 48x014

Testomat® 2000 Fe: 43x015

Testomat® 2000 CI TF: 56x012

Please observe the special installation notes!

Safety Notes

The interface outlet is **not** galvanically isolated. The peripheral device must therefore have non-conductive separation in compliance with the Association of German Electrical Engineers' standard VDE0100 (safety transformer).

Please observe the following procedure when connecting the peripheral device:

1. Switch off the Testomat® 2000 and the peripheral device.
2. Connect the cable to the Testomat® 2000 in compliance with the connection plan.
3. Connect the cable to the print.
4. Check the settings for the transmission format on the printer (see "Connecting the printer")
5. Switch on the printer first, and then the Testomat® 2000.

Warning!

Ignoring these instructions can result in damage to the devices, and may result in loss of warranty rights.

Installation and commissioning

Installation and commissioning must be undertaken only by authorized technicians!

Avoid static charges during operation!

Connecting cables should be kept as short as possible and clear of power cables.

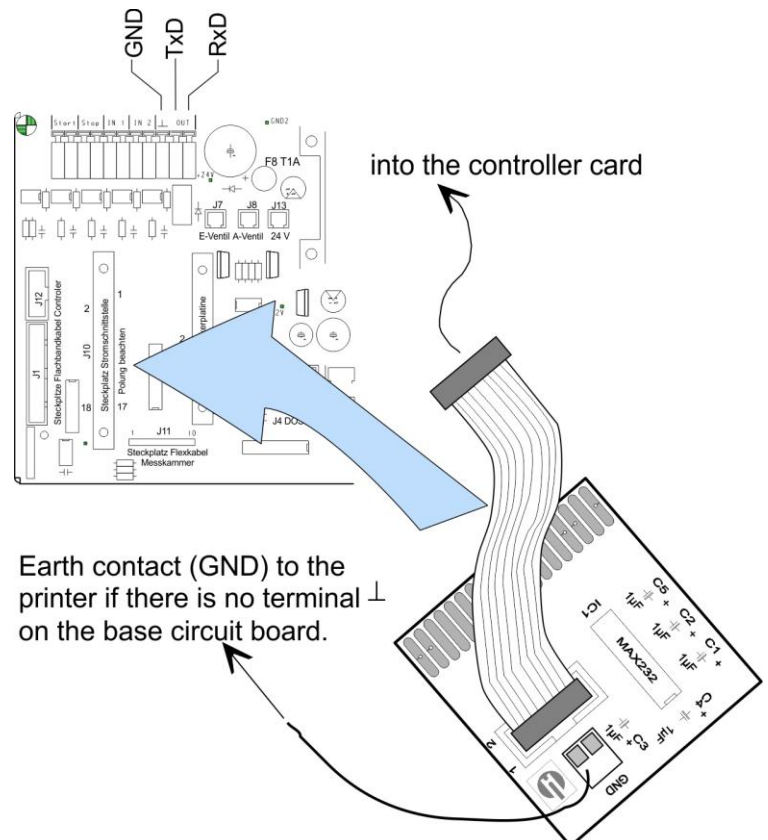
Installation

Insertion of the plug-in card T2000-RS232:

1. Switch off the Testomat® 2000.
2. Insert the board into the left slot with the component side to the left.
3. Insert the multi-pin strap cable into the flying lead of the controller card.
3. Switch on the Testomat® 2000.
4. Program the interface RS232:

"M" → BASIC PROGRAM →

PROGRAM VALUES → INTERFACES → RS232



Electrical Connection

OUT interface-outlet

Terminal block identification

No.	Terminal	Type	Function	Note
⊥	⊥	GND	Earth for the serial interface on the base circuit board or the plug-in card	Only use for the printer connection, not galvanically isolated!
28 29	OUT	TxD RxD	Serial interface	Not galvanically isolated!

Color coding for the printer cables: GND = blue, TxD = brown, RxD = red

Connecting the printer

Loosen both fastening screws and open the upper door. Pierce the required rubber cable glands with a screwdriver and insert the cable (1). Then pull back the cable until the bush (2) has been turned over. Ensure that the leads are held securely in the terminals then close the upper door after the installation is completed using the two fastening screws.

Note!

The following setting should be selected on the printer:
9600 baud, 8 bit - no parity, 1 start bit, 1 stop bit, hardware-handshake (flag).

1. Switch off the Testomat[®] 2000 and the peripheral device.
2. Connect the cable to the Testomat[®] 2000 in compliance with the pin block identification above.
3. Connect the cable to the printer.
4. Switch on the printer first, and then the Testomat[®] 2000.

Printer output

Printer output of status information is designed for a protocol printer DPN-233/2233 (or compatible).

1. After every measuring the measured result is given as follows (example for Testomat[®] 2000 DUO):

"Parameter"		M1: TH2250 M2: TC2100
M1: "measured value" "unit"		M1: 10,5°dH
M2: "measured value" "unit" (if programmed)		M2: 5,0°dH *
Limit value1: "value" "unit" (if programmed)		Limit value2: 4,0°dH
Limit value2: "value" "unit" (if programmed)		31.08.01, 15:21
"date", "time"		(* = current measuring point)

example for printout:

2. Every error message is given as follows:

"error message"	(text as in the display)	example::
"date", "time"		Mf. analysis
		31.08.01, 15:25

Further Information

Fault	Possible causes	Remedies
No printout	<ul style="list-style-type: none"> • Incorrect program ("RS232") • Printer not online • Incorrect connection of cable, no earth (GND) • Interface card defective • Fuse defective 	<ul style="list-style-type: none"> – See basic program – Put printer on standby – Check connection – Replace the plug-in circuit board – Replace fuse F7

We reserve the right to make technical changes without notice in the interest of constantly improving our products!