

Manual

Centronics > Serial Interfaces



Model	28000
	26000
	24000
Release	1.0

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Function

The W&T-Interface 28000 allows uni-directional connection of peripherals equipped with an RS232 port to the parallel port on a computer.

Setting the Interface

Before first using, the RS232 parameters for the interface need to be set using the DIL switches inside the Interface housing. The baud rate, data format and handshake procedure need to be set to the values which the connected peripheral uses.

The DIL switch settings can be found in the following table:

baudrate	SW2	SW3	SW4	SW5
150	ON	ON	off	off
300	off	off	ON	off
600	ON	off	ON	off
1200	off	ON	ON	off
2400	ON	ON	ON	off
4800	off	off	off	ON
9600	ON	off	off	ON
19200	off	ON	off	ON
38400	ON	ON	off	ON
76800	off	off	ON	ON

handshake	SW1
hardware	off
XON/XOFF	ON

parity	SW7	SW8
no	off	off
odd	off	ON
even	ON	ON

data bit	SW 6
7	off
8	ON

Pin assignments for the RS232 interface

The RS232 interface is implemented as a DB25 male with DTE configuration. The pin configuration is shown in the following table:

pin#	funktion
2	data output (TxD)
3	XON/XOFF input (RxD)
5	handshake input (CTS)
7	signal GND

Pin assignments for the Centronics interface

The RS232 interface is implemented as a 36-pin Centronics female. The pin configuration is shown in the following table:

pin#	funktion
1	strobe
2..9	data 0 .. data 7
10	acknowledge
11	busy
12	paper empty (LOW)
13	select (High)
14	auto linefeed (n.c.)
16	signal GND
17	chassis GND
18	(n.c.)
19..30	signal GND
31	init (n.c.)
32	error (High)
36	select in (n.c.)

Connecting the Interface

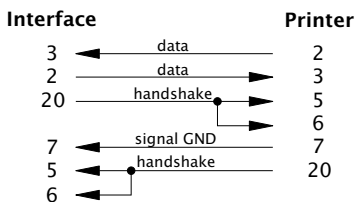
The Interface has a Centronics input and an RS232 output.

Centronics interface

The Centronics input of the Interface corresponds in its wiring and signal characteristics to the input of a parallel printer. This means that any normal printer cable permitting connection of the data source with a Centronics printer can be used to connect the Interface input to the data sender.

RS232 interface

Since peripherals also as a rule have RS232 ports configured as DTE, the connection between the Interface and the peripheral can usually be made using a serial printer cable configured as follows:



Supply voltage

The Interface is powered using the supplied AC adapter. The adapter provides a regulated voltage of 5 V ±5%. Commercially available, unregulated AC adapters are not suitable for powering the Interface.

Technical Data

Baud rate:	150 .. 76800 baud
Data format:	7,8 data bits, No,Even,Odd Parity
Handshake:	DTR- and XON-/XOFF - Handshake
Current draw:	approx. 60mA
Supply voltage:	AC adapter provided
Input:	36-pole Centronics female incl. 0.5 m connection cable on the device
Output:	25-pin SUB-D male in housing
Housing:	Plastic enclosure, 124x74x21 mm
Weight:	425 g incl. AC adapter
Scope of delivery:	1x Interface Centronics > RS232 1x AC adapter for office use

Interface Centronics > RS422, Model 26000

Function

The W&T-Interface 26000 allows uni-directional connection of peripherals equipped with an RS422 port to the parallel port on a computer.

Setting the Interface

Before first using, the RS422 parameters for the interface need to be set using the DIL switches inside the Interface housing. The baud rate, data format and handshake procedure need to be set to the values which the connected peripheral uses.

The DIL switch settings can be found in the following table:

baudrate	SW2	SW3	SW4	SW5
150	ON	ON	off	off
300	off	off	ON	off
600	ON	off	ON	off
1200	off	ON	ON	off
2400	ON	ON	ON	off
4800	off	off	off	ON
9600	ON	off	off	ON
19200	off	ON	off	ON
38400	ON	ON	off	ON
76800	off	off	ON	ON

handshake	SW1
hardware	off
XON/XOFF	ON

parity	SW7	SW8
no	off	off
odd	off	ON
even	ON	ON

data bit	SW 6
7	off
8	ON

Pin assignments for the RS422 interface

The RS422 Interface is implemented as a DB25 male with DTE configuration. The pin configuration is shown in the following table:

pin#	function
1	Shield
10	Data Out A (-)
11	Data In A (-)
14	Signal GND
17	Handshake In A (-)
18	Handshake In B (+)
22	Data Out B (+)
23	Data In B (+)

Pin assignments for the Centronics interface

The Centronics interface is implemented as a 36-pin Centronics female. The pin configuration is shown in the following table:

pin#	function
1	strobe
2..9	data 0 .. data 7
10	acknowledge
11	busy
12	paper empty (LOW)
13	select (High)
14	auto linefeed (n.c.)
16	signal GND
17	chassis GND
18	(n.c.)
19..30	signal GND
31	init (n.c.)
32	error (High)
36	select in (n.c.)

Connecting the Interface

The Interface has a Centronics input and an RS422 output.

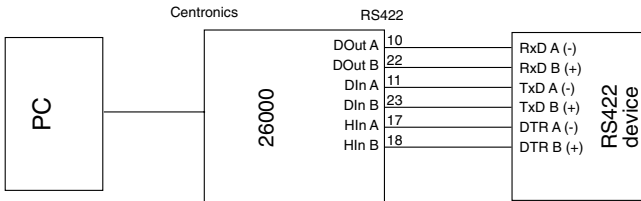
Centronics interface

The Centronics input of the Interface corresponds in its wiring and signal characteristics to the input of a parallel printer. This means that any normal printer cable permitting connection of the data source with a Centronics printer can be used to connect the Interface input to the data sender.

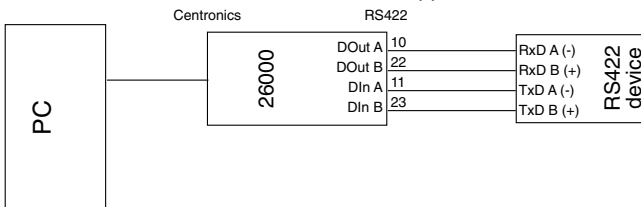
RS422 Interface

Information regarding connecting the RS422 Interface can be found in the following wiring examples:

RS422 hardware handshake application



RS422 software handshake application



Supply voltage

The Interface is powered using the supplied AC adapter. The adapter provides a regulated voltage of 5 V \pm 5%. Commercially available, unregulated AC adapters are not suitable for powering the Interface.

Technical Data

Baud rate:	150 .. 76800 baud
Data format:	7,8 data bits, No,Even,Odd Parity
Handshake:	DTR- and XON-/XOFF - Handshake
Current draw:	approx. 110mA
Supply voltage:	AC adapter provided
Input:	36-pole Centronics female incl. 0.5 m connection cable on the device
Output:	25-pin SUB-D male in housing
Housing:	Plastic enclosure, 124x74x21 mm
Weight:	425 g incl. AC adapter
Scope of delivery:	1x Interface Centronics > RS422 1x AC adapter for office use

Interface Centronics > RS422, Model 24000

Function

The W&T-Interface 24000 allows uni-directional connection of peripherals equipped with a 20mA port to the parallel port on a computer.

Setting the Interface

Before first using, the 20mA parameters for the interface need to be set using the DIL switches inside the Interface housing. The baud rate, data format and handshake procedure need to be set to the values which the connected peripheral uses.

The DIL switch settings can be found in the following table:

baudrate	SW2	SW3	SW4	SW5
150	ON	ON	off	off
300	off	off	ON	off
600	ON	off	ON	off
1200	off	ON	ON	off
2400	ON	ON	ON	off
4800	off	off	off	ON
9600	ON	off	off	ON
19200	off	ON	off	ON

handshake	SW1
XON/XOFF	ON

parity	SW7	SW8
no	off	off
odd	off	ON
even	ON	ON

data bit	SW 6
7	off
8	ON

The speeds 38.4 kBaud and 78.6 kBaud can in principle be set on the DIL switches, but correct function of the Interface cannot be guaranteed in these modes.

Pin assignments for the 20mA interface

The 20mA Interface is implemented as a DB25 male. The pin configuration is shown in the following table:

pin#	function
12	Data In (XON/XOFF) +
13	Data Out -
14	Signal GND
24	Data In (XON/XOFF) -
25	Data Out +

Pin assignments for the Centronics interface

The Centronics interface is implemented as a 36-pin Centronics female. The pin configuration is shown in the following table:

pin#	function
1	strobe
2..9	data 0 .. data 7
10	acknowledge
11	busy
12	paper empty (LOW)
13	select (High)
14	auto linefeed (n.c.)
16	signal GND
17	chassis GND
18	(n.c.)
19..30	signal GND
31	init (n.c.)
32	error (High)
36	select in (n.c.)

Connecting the Interface

The Interface has a Centronics input and a 20mA output.

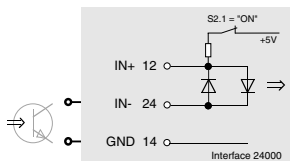
Centronics interface

The Centronics input of the Interface corresponds in its wiring and signal characteristics to the input of a parallel printer. This means that any normal printer cable permitting connection of the data source with a Centronics printer can be used to connect the Interface input to the data sender.

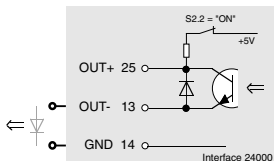
20mA Interface

Information regarding connecting the 20mA Interface can be found in the following wiring examples:

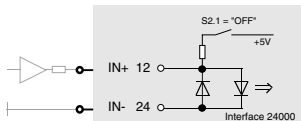
Data input active



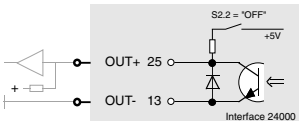
Data output active



Data input passive



Data output passive



Supply voltage

The Interface is powered using the supplied AC adapter. The adapter provides a regulated voltage of 5 V \pm 5%. Commercially available, unregulated AC adapters are not suitable for powering the Interface.

Technical Data

Baud rate:	150 .. 19200 baud
Data format:	7,8 data bits, No,Even,Odd Parity
Handshake:	DTR- and XON-/XOFF - Handshake
Current draw:	approx. 50mA
Supply voltage:	AC adapter provided
Input:	36-pole Centronics female incl. 0.5 m connection cable on the device
Output:	25-pin SUB-D male in housing
Housing:	Plastic enclosure, 124x74x21 mm
Weight:	425 g incl. AC adapter
Scope of delivery:	1x Interface Centronics > 20mA 1x AC adapter for office use