

# B3 SERIAL COMMUNICATIONS

B3, B3A, B3B, B3K, B3-MINI, B3T, B3TX Version P.31

B3D, B3D-MINI Version P.12



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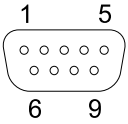
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# 1. INDICATOR COMPUTER CONNECTION

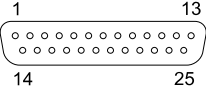
## 9 pin RS-232 Connection

Both sides of the cable must be female.

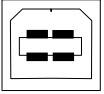
RS-232	Pin	Value	PC Connection
	2	Rx	3
	3	Tx	2
	5	Gnd	5

## 25 pin RS-232 Connection

Both sides of the cable must be female.

RS-232	Pin	Value	PC Connection
	2	Tx	2
	3	Rx	3
	7	Gnd	5

## USB Connection

	<p>USB PC Connection <b>Note:</b> USB driver must be downloaded and installed from <a href="http://www.erte.com.tr">www.erte.com.tr</a> before the cable is connected.</p>
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## 2. F PARAMETER - SEND MODE

### 0 - Continuous Output Mode

In this mode, transmissions are made periodically. The period can be adjusted with the **SPd** parameter.

### 1 - Send by Key or Command

In this mode data is sent when pressing  key or sending command from serial port.

- Weight should be stable in order to send by  key.
- In response to some characters sent from the serial port, the following operations are performed:
  - C or c                                  Cancel Tare
  - T or t                                    Tare
  - Z or z                                    Zero
  - CR (Carriage Return, 0x0D) No action
  - LF (New Line, 0x0A)                No action
  - In response to each character other than the above data is sent formatted according to the **tYPE** parameter.

### 3. TYPE PARAMETER - DATA FORMAT

#### 0 - ERTE Standart

<b>A</b>	<b>-</b>		<b>0</b>	<b>4</b>	<b>7</b>	<b>2</b>	<b>CR</b>
1	2	3	4	5	6	7	8

1. Character:
- A Weight is stable, tare is zero
  - B Weight is stable, tare is not zero
  - C Weight is not stable, tare is zero
  - D Weight is not stable, tare is not zero
  - E Overload or underload error

2 - 7. Characters: Net weight shown in the display (without dots, justified with space)

8. Character: Carriage Return (0x0D)

Examples:

Net weight 0, stable

<b>A</b>						<b>0</b>	<b>CR</b>
----------	--	--	--	--	--	----------	-----------

Overload or underload error

<b>E</b>							<b>CR</b>
----------	--	--	--	--	--	--	-----------

Net weight 5.0, not stable

<b>C</b>					<b>5</b>	<b>0</b>	<b>CR</b>
----------	--	--	--	--	----------	----------	-----------

Net weight -0.472, stable

<b>A</b>	<b>-</b>		<b>0</b>	<b>4</b>	<b>7</b>	<b>2</b>	<b>CR</b>
----------	----------	--	----------	----------	----------	----------	-----------

# 1 - ERTE E200

	<b>S</b>		<b>P</b>					<b>5</b>	<b>.</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>k</b>	<b>g</b>	<b>CR</b>	<b>LF</b>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

- 1. Character            N        Tare is not zero  
space        Tare is zero
  
- 2. Character            S        Weight is stable  
space        Weight is not stable
  
- 3. Character            Z        Weight is near zero  
space        Weight is not near zero
  
- 4. Character            P        Weight can be saved  
space        Weight cannot be saved
  
- 5. Character            space
  
- 6 - 13. Characters      Net weight shown in display (justified right with space)  
                              HHHHHHHH        Overload error  
                              LLLLLLLL         Underload error
  
- 14. Character            space
- 15. Character            k
- 16. Character            g
- 17. Character            Carriage Return (0x0D)
- 18. Character            Line Feed (0x0A)

Examples:

Net weight 5.000, stable, weight can be saved

	<b>S</b>		<b>P</b>					<b>5</b>	<b>.</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>k</b>	<b>g</b>	<b>CR</b>	<b>LF</b>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

Overload error

					<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>		<b>k</b>	<b>g</b>	<b>CR</b>	<b>LF</b>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

## 2 - XK-3190 / TA-200

<b>W</b>	<b>G</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>k</b>	<b>g</b>	<b>3</b>	<b>2</b>	<b>CR</b>	<b>LF</b>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

## 3 - ESIT MODE 1

<b>+</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>CR</b>
1	2	3	4	5	6	7	8

## 4 - BAYKON 1

<b>STX</b>	<b>u</b>	<b>0</b>	<b>0</b>						<b>0</b>						<b>0</b>	<b>CR</b>	<b>CSUM</b>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

## 5 - LEON

<b>P</b>	<b>+</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>CR</b>
1	2	3	4	5	6	7	8	9

## 6 - RINSTRUM

<b>STX</b>				<b>0</b>	<b>.</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>G</b>	<b>ETX</b>
1	2	3	4	5	6	7	8	9	10	11

## 7 - BAYKON 2

<b>STX</b>	<b>u</b>	<b>0</b>	<b>0</b>						<b>0</b>						<b>0</b>	<b>CR</b>	<b>CSUM</b>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

## 8 - ESIT 2

<b>@</b>							<b>0</b>	<b>CR</b>
1	2	3	4	5	6	7	8	

1. character is specified in decimal order according to the **ch.** parameter. Ex. 064 must be entered for @.  
For full compatibility with ESIT PWI-T parameters must be selected as **ch.** 064, **baud** 1200.

## 9 - EXT1

<b>+</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>CR</b>
1	2	3	4	5	6	7	8	9



## 10 - ULKER

0	0	0	0	0	0	CR	LF
1	2	3	4	5	6	7	

## 11 - SCHENK

0	0	0	0	0	0	0	0	0			k	g		G	CR	LF
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

For full compatibility **Prot.** parameter also should be selected 7-E-1

## 12 - TOLEDO

					0	0	0	0	.	0	0	0	CR	LF
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

## 13 - CAS

S	T	,	N	T	,	X	X	,				0	.	0	0	0		k	g	C	L
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

## 91, .., 99 - User Defined Data Formats

- Up to 9 user-defined export formats can be loaded into the indicator
- B3 Utility is used to load user-defined data formats
- Create a template file ser91 for sending format 91, ..., ser99 for sending format 99 (See b3-utility\_program.pdf for detailed information)
- The **Pr.SET.** menu becomes active when the user-defined sending format is selected

Sample ser91 template:

```
NET=${18;7;r] kg&0D;&0A;
```

## **4. BAUD PARAMETER**

Options are 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200.

## 5. PROT. PARAMETER

<b>8-n-1</b>	8 bit, No Parity, 1 stop bit
<b>8-E-1</b>	8 bit, Even parity, 1 stop bit
<b>8-o-1</b>	8 bit, Odd parity, 1 stop bit
<b>7-n-1</b>	7 bit, No Parity, 1 stop bit
<b>7-E-1</b>	7 bit, Even parity, 1 stop bit
<b>7-o-1</b>	7 bit, Odd parity, 1 stop bit

## 6. RTS PARAMETRESİ

Hardware flow control parameter. If selected as 1, the RX connection is used for hardware control.

## 7. SPD PARAMETER

<b>0</b>	Indicator rate (6.25/second by default)
<b>1</b>	1/second
<b>2</b>	2/second
<b>3</b>	3/second
<b>4</b>	4/second
<b>5</b>	5/second

Weighing measurement speed parameter (**A.S.**) can be set from Advanced Weighing Settings menu as:

6.25 / second,

12.5 / second,

25 / second,

50 / second

See b3-advanced\_settings.pdf for detailed information.