

Specifications

Communication Tool Software

EzCTS2

Spec. No. EN382EzCTS2

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1. EzCTS2 (Ez Communication Tool Software2)

1-1. General

This communication tool software (EzCTS2) can send and receive commands between digital indicators (CSD-912, CSD-903, CSD-892-73, CSD-892-74, CSD-892-76, CSD-892-07-25, CSD-893-76, CSD-918, CSD-709, CSD-701C) (and indicators thereafter) and a PC to read data from and write desired setting parameters to the indicator by sending and receiving commands.

The settings parameter data that has been read can be output to various files.

1-2. Software functions

The functions in this software are as follows:

- Reading/Writing the setting parameter (All the items lump together)
 - *The parameters read-in are shown on the reading column of list.
 - *Writing parameter is set on the writing column of list.
 - *A parameter different from then compare value displays the set value in red. (Read and Write fields common.)
 - * The Compare value is set from the file of the default value or the configuration parameter.

- Reading file of setting parameter/ storage
 - *The parameter that has read-in from the file reflects to the writing column of list.
 - *The parameter that stores in the file is the parameter of reading column of the list.

- Saving the file for trend graph data
 - *When the number of measuring points is "0", you can't read the graphic data.
 - *After reading the data is over, specify the file name and store it.

- Input of Header information to control file
 - *"Serial No.", "Memorandum" and "Version" are input through the software.

- Calibration by Communication (Electrical calibration)
 - *The items related to the calibration value is made recordable, and the calibration by the communication is executed.
 - *Writing of actual weight calibration (ZERO calibration and SPAN calibration) is set to prohibit.

- Print function
 - *The setting parameter is printed out.
 - *The title, user name, device name, number, P/No., S/No., issued date and footer are enabled to be set arbitrarily, and output as a print item.

- Calibration lock
 - *While locking the calibration (Hard lock or software lock) with the indicator, you cannot write the BASIC FUNCTION SETTING (Item for calibration lock), and execute the electrical calibration of [Calibration]. If above mentioned is executed, the error command is replied and the error message is displayed.

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1 - 3. Targeted instruments for operation

| Name of instrument | Contents | |
|-------------------------------|---|--|
| PC | OS | Windows 10 Windows 11 |
| | CPU | 1GHz or more(recommended) |
| | Memory | 2GB or more (recommended) |
| | Hard disk | 1GB or more (recommended) |
| | Serial port | 1 port USB<-->Serial transducer is usable. (recommended) |
| | CD-ROM drive | Required at the time of installation. |
| Mouse | — | |
| Key board | — | |
| Minimum resolution | 1,280 x 768 or higher | |
| Targeted indicator | <ul style="list-style-type: none"> • Digital indicator [CSD-912(B), CSD-918, CSD-903, or CSD-701C] (When using RS-232C, optional circuit board for RS-232C (sold separately) is required.) • Digital Peak Holder [CSD-709] • Digital Conversion Module [CSD-892(B)-73, CSD-892(B)-74, CSD-892(B)-76, CSD-892(B)-07-25, CSD-893-76] | |
| RS-485 cable (2 wires method) | Between PC and Indicator, Digital Communication Cable | |
| RS-232C<-->RS-485 converter | Communication Cable Converter Between PC and Indicator | |
| USB cable | Communication Cable Between PC and Digital Conversion Module | |

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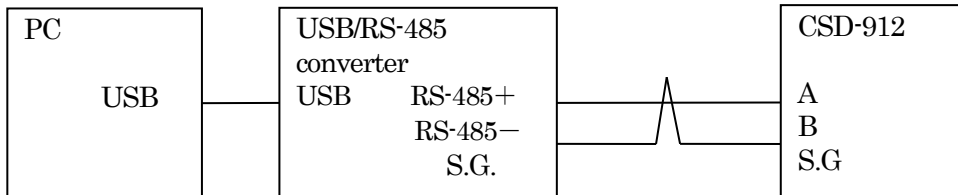
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1-4. Connection

1-4-1. CSD-912

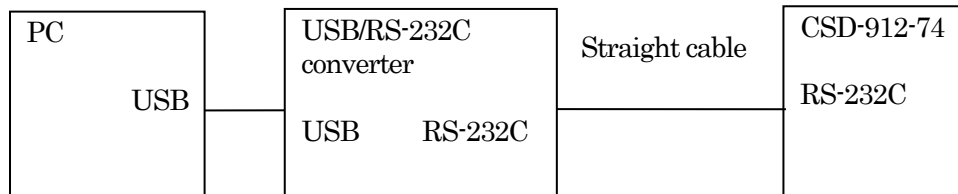
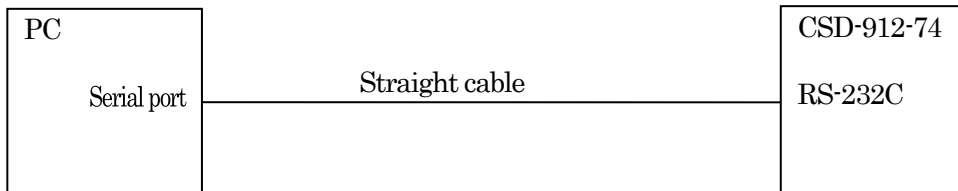
- **Connection of standard RS-485 interface**

PC is connected with the A, B and S.G on the interface terminal of RS-485 of CSD-912, and makes use of it used in the Command mode.



- **Connection with the RS-232C interface sold separately**

PC is connected with RS-232C connector on CSD-912-74, and used of it in the Command mode.



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1-4-2.CSD-903

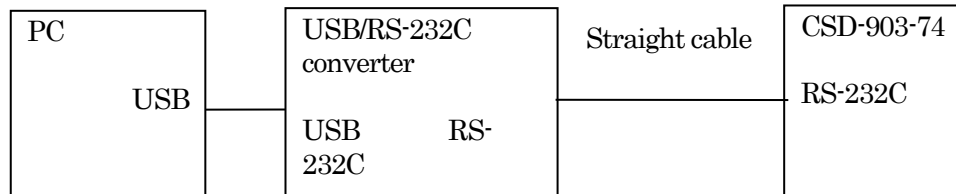
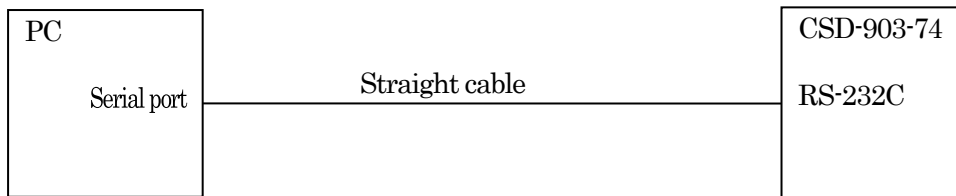
- **Connection with standard RS-485 interface**

PC is connected with the A, B, and S.G. on the interface terminal of RS-485 of CSD-903, and make use of it used the Command mode.



- **Connection with RS-232C interface sold separately**

PC is connected with RS-232C connector on CSD-903-74, and used in the Command mode.



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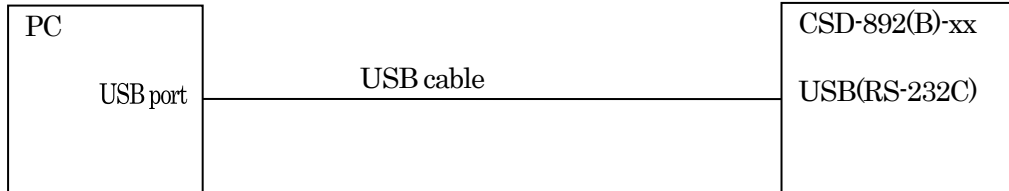
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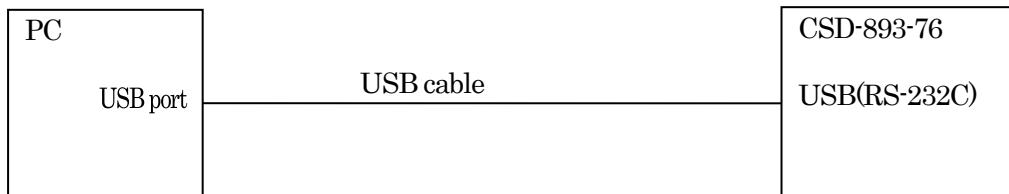
1-4-3. CSD-892(B)-xx

PC is connected with USB connector on CSD-892(B)-xx, and used in the EzCTS mode.



1-4-4. CSD-893-76

PC is connected with USB connector on CSD-893-76, and used in the EzCTS mode.



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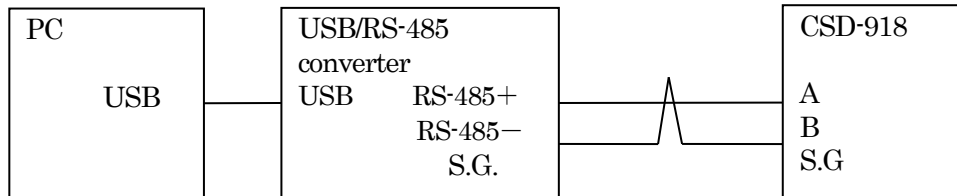
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1-4-5.CSD-918

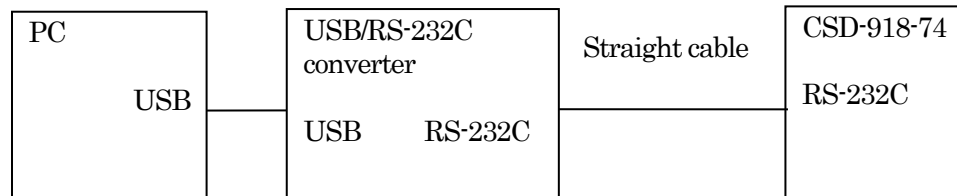
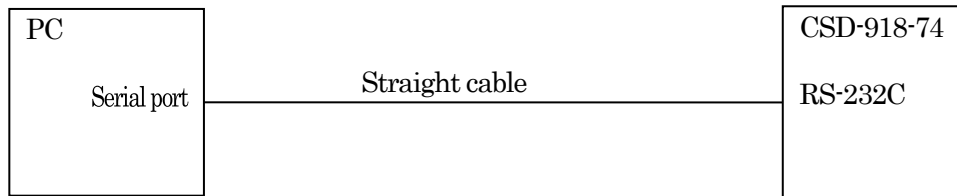
• Connection of standard RS-485 interface

PC is connected with the A, B and S.G on the interface terminal of RS-485 of CSD-918, and uses it in the Command mode.



• Connection with the RS-232C interface sold separately

PC is connected with RS-232C connector on CSD-918-74, and uses it in the Command mode.



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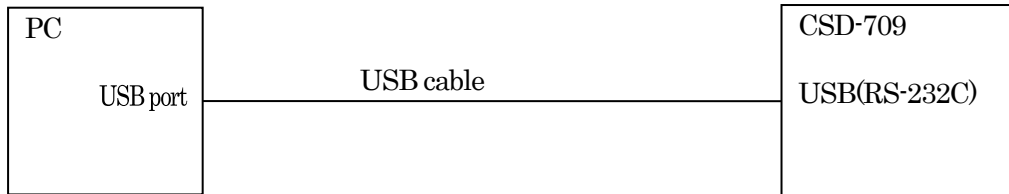
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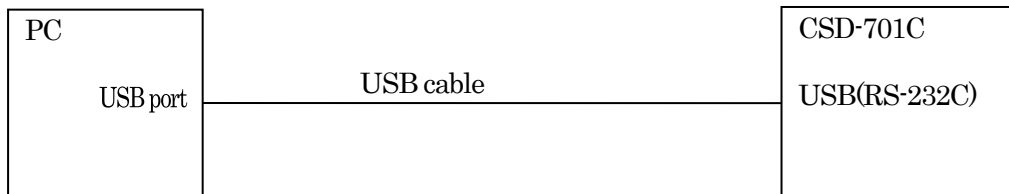
1-4-6.CSD-709

PC is connected with USB connector on CSD-709, and used in the EzCTS mode.



1-4-7.CSD-701C

PC is connected with USB connector on CSD-701C, and used in the EzCTS mode.



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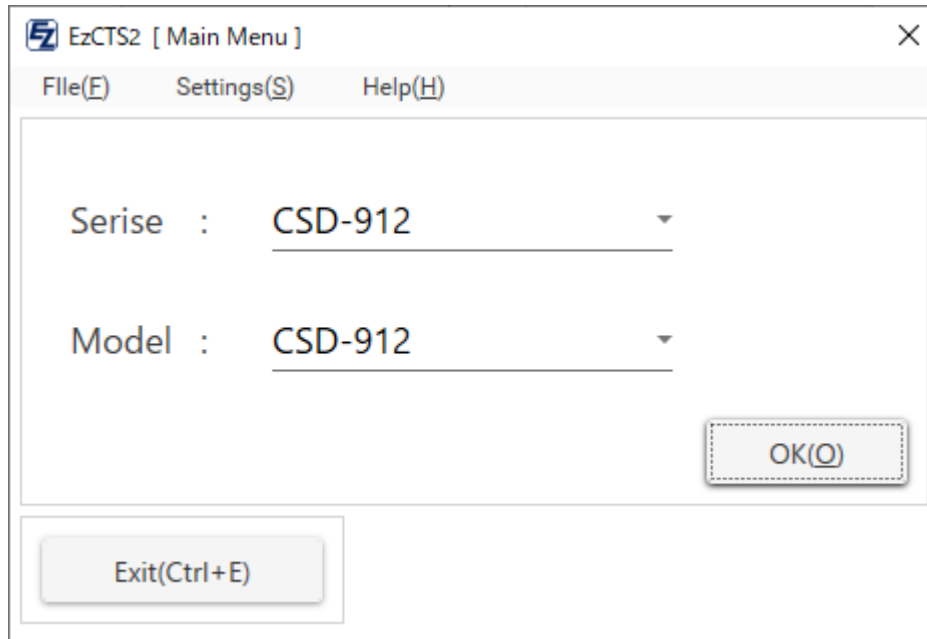
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1-5. Specifications for functions

1-5-1. Operating windows

(1) Main Menu



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(2) Version information window

Minebea



Ez Communication Tool Software 2

Version: 1.000

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thing without permission, and note becoming the infringement of a copyright.

OK(O)

It's version information shows.

(3) System setting window

System Settings

Languages

Japanese

OK(O)

Cancel(C)

Set the localization.

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1-6. Specifications for functions

1-6-1. Operation menu

(1) Main menu

The screenshot shows the EzCTS2 software interface. At the top, there are menu options: File(F), Data(D), Graph(G), and ComSetting(C). Below these are several buttons: HEADER(H), Calibration(A), and WEIGHING MODE(W). The Calibration(A) button has a Start(B) sub-button. The WEIGHING MODE(W) button has a dropdown menu set to 'Sequential mode'. Below these are input fields for Serial No., Ver., and Model (CSD-912B), and a Memo field.

The main area is titled 'DISP & SET' and contains a table with columns: No., Command Name, Read, Write, and Compare. The 'Disp & Set Item' dropdown is set to 'CALIBRATION'. The table lists 17 items with their respective command names and compare values.

On the right side, there are buttons for DATA (Read(B), Write(W)), FILE (Load(L), Save(S)), and Print(P). At the bottom right, there is a Return(O) button. The status bar at the bottom shows 'ROM Ver -...', '0.0%', and 'Ready'.

| No. | Command Name | Read | Write | Compare |
|-----|-------------------------------|------|--------------|---------|
| 1 | ZERO ADJUSTMENT | | | 0 |
| 2 | SPAN ADJUSTMENT | | | 10000 |
| 3 | WEIGHING CAPACITY | | | 10000 |
| 4 | DIVISION | | | 1 |
| 5 | ZERO POINT mV/V [x0.0001] | | | |
| 6 | SPAN POINT mV/V [x0.0001] | | | |
| 7 | DECIMAL POINT | | | 0 |
| 8 | UNIT | | | |
| 9 | BRIDGE POWER SUPPLY | | NONE | |
| 10 | OL DISPLAY CONDITION | | 12V | |
| 11 | ADJ. GRAV. ACCELERATION | | (+ or -) 9D | |
| 12 | CALIB. PLACE No. | | DISTRICT No. | 10 |
| 13 | OPERATION PLACE No. | | | 10 |
| 14 | CALIB. PLACE G.A. [x0.001] | | | 9797 |
| 15 | OPERATION PLACE G.A. [x0.001] | | | 9797 |
| 16 | ZERO POINT mV/V [x0.00001] | | | 0 |
| 17 | SPAN POINT mV/V [x0.00001] | | | 30000 |

HEADER (H)

Set "Serial No.", "Memorandum" and "ROM version".

WEIGHING MODE(W)

Changeover of the Measurement mode.

Calibration(A)

Changeover of the Calibration mode.

*It displayed only when selected "CALIBRATION" at "Disp & Set Item".

DISP & SET

Display of parameter to be read, and set of parameter to write.

Set the setting group at the time of display/set, and set the targeted code at the time of Brand and so on.

DATA

Order to read or write for the indicator.

FILE

Order to read or write for the file.

Print(P)

Order to print the date.

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(2) Communication setting menu

Communication Settings

Settings

Port 8 Parity odd

BaudRate 9600 Stop Bit 1

Char Length 7 Term CRLF

RS422/485

RS422/485 Address 0

Time Out 500 msec

Save(S)

Check

TXD @0020

RXD

Check(W)

Close(C)

| | |
|-------------|--|
| Port | Set the number of serial port. |
| Baud Rate | Set the Baud rate. |
| Char Length | Set the Char length. |
| Parity | Set the Parity bit. |
| Stop Bit | Set the Stop bit length. |
| Term | Set the Terminator. |
| RS422/485 | Set the use of declaration of RS422/485 interface and address. |
| Time Out | Set the Time out posed for communication. |

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(3) Print menu

Printer

Set the printer.

Paper

Set the form to print out.

*Impossible to set.

Direction

Set the direction to print.

*Impossible to set.

Printing Out Select

Set the contents to be printed.

Items in the list depend on the selection of the "WEIGHING MODE".

| WEIGHING MODE | list item |
|------------------------|--|
| Simple comparison mode | "BRAND CODE", "RECIPE CODE", "OPERATION SETTING" |
| Sequential mode | "BRAND CODE", "RECIPE CODE", "OPERATION SETTING" |
| 4 STEP COMPARATOR | "4 STEP COMPARATOR", "OPERATION SETTING" |

Print Range

Set the range to be printed.

*Displayed only when we chose excluding "OPERATION SETTING".

Printing Item

Set the item to print out.

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1 - 6 - 2 .File output

- Outputs the Header information to the file for the purpose of control.
*Outputs the Header to the parameter file and the trend graph file.
- The file format is CSV format. (Can be controlled with EXCEL or the Text editor.)
- User can save the file to the optional folder.
- The file name of Parameter is saved with "Optional name _para.CSV".
EX) When the optional name is set as "CSD*** parameter", the file name created is "CSD*** parameter _para.CSV".
- When the optional name is not ordered, save with "present time (YYYYMMDD_HHMMSS) _para.CSV".
EX) The date and time when creating the file is in the case of 9 o'clock 10 minute 12 sec on June 10 in 2009", the file name shall be "20090610_091012_ para.CSV".
- The trend graph name can be saved as "Optional name _graph.CSV".
EX) When the optional name is made as "CSD***", the file name shall be created as "CSD*** _graph.CSV".
- When the optional name isn't specified, make it as "present time (YYYYMMDD_HHMMSS) _graph.CSV".
EX) The present time when creating the file is at "2009June10, 09, 10, 12", the file name shall be "20090610_091012_ graph.CSV".

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1-6-3. Print functions

- Print out the data read-in from the indicator to the printer.
*Usable as a parameter sheet.
- As for the print items in below, optional character string can be set on the print menu.
Title, customer's name, name of device, No., Model, S/N, published date and footer
- For the setting items other than the Compare values, * (asterisk) marks are applied.
However, * mark will not be applied to the "BRAND CODE Parameters" and "RECIPE CODE Parameters".
- The procedures of print format are as follows:

["Print Out Select" : "BRAND CODE"]

Title

PARAMETER SHEET

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Page number

Customer : Minebea Company
 Unit : MM37system
 NO. : 30009520
 Model : CSD-912
 S/II : 0970203
 Date : 2013/01/24

| <<BRAND CODE SETTING>> | |
|-----------------------------|-------------|
| 01 BRAND CODE | 0 |
| 02 BRAND NAME | |
| 03 BRAND HOPPER No. | 1 |
| 04 FINAL | 100 |
| 05 FREE FALL | 0 |
| 06 PRELIMINAY 1 | 0 |
| 07 PRELIMINAY 2 | 0 |
| 08 OVER | 0 |
| 09 UNDER | 0 |
| 10 ZERO BAND | 0 |
| 11 FULL | 0 |
| 12 A. F.F. COMPENSATION | 0 |
| 13 SUPPLEMENTARY FLOW TIME | 0 [x0.01 S] |
| 14 JUDGE. AFTER S-FLOW WAIT | 0 [x0.01 S] |
| 15 BRAND ACCUM. VALUE | 0 |
| 16 BRAND ACCUM. TIMES | 0 |
| 17 PRE TARE | 0 |
| 18 INITIAL FULL FLOW | 0 |
| 19 INITIAL MEDIUM FLOW | 0 |

| <<BRAND CODE SETTING>> | |
|-----------------------------|-------------|
| 01 BRAND CODE | 3 |
| 02 BRAND NAME | |
| 03 BRAND HOPPER No. | 0 |
| 04 FINAL | 0 |
| 05 FREE FALL | 0 |
| 06 PRELIMINAY 1 | 0 |
| 07 PRELIMINAY 2 | 0 |
| 08 OVER | 0 |
| 09 UNDER | 0 |
| 10 ZERO BAND | 0 |
| 11 FULL | 0 |
| 12 A. F.F. COMPENSATION | 0 |
| 13 SUPPLEMENTARY FLOW TIME | 0 [x0.01 S] |
| 14 JUDGE. AFTER S-FLOW WAIT | 0 [x0.01 S] |
| 15 BRAND ACCUM. VALUE | 0 |
| 16 BRAND ACCUM. TIMES | 0 |
| 17 PRE TARE | 0 |
| 18 INITIAL FULL FLOW | 0 |
| 19 INITIAL MEDIUM FLOW | 0 |

| <<BRAND CODE SETTING>> | |
|-----------------------------|-------------|
| 01 BRAND CODE | 1 |
| 02 BRAND NAME | |
| 03 BRAND HOPPER No. | 0 |
| 04 FINAL | 0 |
| 05 FREE FALL | 0 |
| 06 PRELIMINAY 1 | 0 |
| 07 PRELIMINAY 2 | 0 |
| 08 OVER | 0 |
| 09 UNDER | 0 |
| 10 ZERO BAND | 0 |
| 11 FULL | 0 |
| 12 A. F.F. COMPENSATION | 0 |
| 13 SUPPLEMENTARY FLOW TIME | 0 [x0.01 S] |
| 14 JUDGE. AFTER S-FLOW WAIT | 0 [x0.01 S] |
| 15 BRAND ACCUM. VALUE | 0 |
| 16 BRAND ACCUM. TIMES | 0 |
| 17 PRE TARE | 0 |
| 18 INITIAL FULL FLOW | 0 |
| 19 INITIAL MEDIUM FLOW | 0 |

| <<BRAND CODE SETTING>> | |
|-----------------------------|-------------|
| 01 BRAND CODE | 4 |
| 02 BRAND NAME | |
| 03 BRAND HOPPER No. | 0 |
| 04 FINAL | 0 |
| 05 FREE FALL | 0 |
| 06 PRELIMINAY 1 | 0 |
| 07 PRELIMINAY 2 | 0 |
| 08 OVER | 0 |
| 09 UNDER | 0 |
| 10 ZERO BAND | 0 |
| 11 FULL | 0 |
| 12 A. F.F. COMPENSATION | 0 |
| 13 SUPPLEMENTARY FLOW TIME | 0 [x0.01 S] |
| 14 JUDGE. AFTER S-FLOW WAIT | 0 [x0.01 S] |
| 15 BRAND ACCUM. VALUE | 0 |
| 16 BRAND ACCUM. TIMES | 0 |
| 17 PRE TARE | 0 |
| 18 INITIAL FULL FLOW | 0 |
| 19 INITIAL MEDIUM FLOW | 0 |

| <<BRAND CODE SETTING>> | |
|-----------------------------|-------------|
| 01 BRAND CODE | 2 |
| 02 BRAND NAME | |
| 03 BRAND HOPPER No. | 0 |
| 04 FINAL | 0 |
| 05 FREE FALL | 0 |
| 06 PRELIMINAY 1 | 0 |
| 07 PRELIMINAY 2 | 0 |
| 08 OVER | 0 |
| 09 UNDER | 0 |
| 10 ZERO BAND | 0 |
| 11 FULL | 0 |
| 12 A. F.F. COMPENSATION | 0 |
| 13 SUPPLEMENTARY FLOW TIME | 0 [x0.01 S] |
| 14 JUDGE. AFTER S-FLOW WAIT | 0 [x0.01 S] |
| 15 BRAND ACCUM. VALUE | 0 |
| 16 BRAND ACCUM. TIMES | 0 |
| 17 PRE TARE | 0 |
| 18 INITIAL FULL FLOW | 0 |
| 19 INITIAL MEDIUM FLOW | 0 |

| <<BRAND CODE SETTING>> | |
|-----------------------------|-------------|
| 01 BRAND CODE | 5 |
| 02 BRAND NAME | |
| 03 BRAND HOPPER No. | 0 |
| 04 FINAL | 0 |
| 05 FREE FALL | 0 |
| 06 PRELIMINAY 1 | 0 |
| 07 PRELIMINAY 2 | 0 |
| 08 OVER | 0 |
| 09 UNDER | 0 |
| 10 ZERO BAND | 0 |
| 11 FULL | 0 |
| 12 A. F.F. COMPENSATION | 0 |
| 13 SUPPLEMENTARY FLOW TIME | 0 [x0.01 S] |
| 14 JUDGE. AFTER S-FLOW WAIT | 0 [x0.01 S] |
| 15 BRAND ACCUM. VALUE | 0 |
| 16 BRAND ACCUM. TIMES | 0 |
| 17 PRE TARE | 0 |
| 18 INITIAL FULL FLOW | 0 |
| 19 INITIAL MEDIUM FLOW | 0 |

(Compare:Default)

Footer

Minebea.CO.,Ltd.

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["Print Out Select" : "RECIPE CODE"]

Title

PARAMETER SHEET

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Print information

Customer : Minebea Company
 Unit : MM37system
 NO. : 30009520
 Model : CSD-912
 S/N : 0970203
 Date : 2013/01/24

Set for each RECIPE CODE Setting

<<RECIPE CODE SETTING>>

| | | |
|----|---------------------|----|
| 01 | RECIPE CODE | 0 |
| 02 | RECIPE NAME | 1 |
| 03 | MEAS. NO.1 | 00 |
| 04 | MEAS. NO.2 | 01 |
| 05 | MEAS. NO.3 | 02 |
| 06 | MEAS. NO.4 | -- |
| 07 | MEAS. NO.5 | -- |
| 08 | MEAS. NO.6 | -- |
| 09 | MEAS. NO.7 | -- |
| 10 | MEAS. NO.8 | -- |
| 11 | MEAS. NO.9 | -- |
| 12 | MEAS. NO.10 | -- |
| 13 | RECIPE ACCUM. VALUE | 0 |
| 14 | RECIPE ACCUM. TIMES | 0 |

<<RECIPE CODE SETTING>>

| | | |
|----|---------------------|----|
| 01 | RECIPE CODE | 4 |
| 02 | RECIPE NAME | -- |
| 03 | MEAS. NO.1 | -- |
| 04 | MEAS. NO.2 | -- |
| 05 | MEAS. NO.3 | -- |
| 06 | MEAS. NO.4 | -- |
| 07 | MEAS. NO.5 | -- |
| 08 | MEAS. NO.6 | -- |
| 09 | MEAS. NO.7 | -- |
| 10 | MEAS. NO.8 | -- |
| 11 | MEAS. NO.9 | -- |
| 12 | MEAS. NO.10 | -- |
| 13 | RECIPE ACCUM. VALUE | 0 |
| 14 | RECIPE ACCUM. TIMES | 0 |

<<RECIPE CODE SETTING>>

| | | |
|----|---------------------|----|
| 01 | RECIPE CODE | 1 |
| 02 | RECIPE NAME | -- |
| 03 | MEAS. NO.1 | -- |
| 04 | MEAS. NO.2 | -- |
| 05 | MEAS. NO.3 | -- |
| 06 | MEAS. NO.4 | -- |
| 07 | MEAS. NO.5 | -- |
| 08 | MEAS. NO.6 | -- |
| 09 | MEAS. NO.7 | -- |
| 10 | MEAS. NO.8 | -- |
| 11 | MEAS. NO.9 | -- |
| 12 | MEAS. NO.10 | -- |
| 13 | RECIPE ACCUM. VALUE | 0 |
| 14 | RECIPE ACCUM. TIMES | 0 |

<<RECIPE CODE SETTING>>

| | | |
|----|---------------------|----|
| 01 | RECIPE CODE | 5 |
| 02 | RECIPE NAME | -- |
| 03 | MEAS. NO.1 | -- |
| 04 | MEAS. NO.2 | -- |
| 05 | MEAS. NO.3 | -- |
| 06 | MEAS. NO.4 | -- |
| 07 | MEAS. NO.5 | -- |
| 08 | MEAS. NO.6 | -- |
| 09 | MEAS. NO.7 | -- |
| 10 | MEAS. NO.8 | -- |
| 11 | MEAS. NO.9 | -- |
| 12 | MEAS. NO.10 | -- |
| 13 | RECIPE ACCUM. VALUE | 0 |
| 14 | RECIPE ACCUM. TIMES | 0 |

RECIPE CODE Setting Print area

<<RECIPE CODE SETTING>>

| | | |
|----|---------------------|----|
| 01 | RECIPE CODE | 2 |
| 02 | RECIPE NAME | -- |
| 03 | MEAS. NO.1 | -- |
| 04 | MEAS. NO.2 | -- |
| 05 | MEAS. NO.3 | -- |
| 06 | MEAS. NO.4 | -- |
| 07 | MEAS. NO.5 | -- |
| 08 | MEAS. NO.6 | -- |
| 09 | MEAS. NO.7 | -- |
| 10 | MEAS. NO.8 | -- |
| 11 | MEAS. NO.9 | -- |
| 12 | MEAS. NO.10 | -- |
| 13 | RECIPE ACCUM. VALUE | 0 |
| 14 | RECIPE ACCUM. TIMES | 0 |

<<RECIPE CODE SETTING>>

| | | |
|----|---------------------|----|
| 01 | RECIPE CODE | 6 |
| 02 | RECIPE NAME | -- |
| 03 | MEAS. NO.1 | -- |
| 04 | MEAS. NO.2 | -- |
| 05 | MEAS. NO.3 | -- |
| 06 | MEAS. NO.4 | -- |
| 07 | MEAS. NO.5 | -- |
| 08 | MEAS. NO.6 | -- |
| 09 | MEAS. NO.7 | -- |
| 10 | MEAS. NO.8 | -- |
| 11 | MEAS. NO.9 | -- |
| 12 | MEAS. NO.10 | -- |
| 13 | RECIPE ACCUM. VALUE | 0 |
| 14 | RECIPE ACCUM. TIMES | 0 |

<<RECIPE CODE SETTING>>

| | | |
|----|---------------------|----|
| 01 | RECIPE CODE | 3 |
| 02 | RECIPE NAME | -- |
| 03 | MEAS. NO.1 | -- |
| 04 | MEAS. NO.2 | -- |
| 05 | MEAS. NO.3 | -- |
| 06 | MEAS. NO.4 | -- |
| 07 | MEAS. NO.5 | -- |
| 08 | MEAS. NO.6 | -- |
| 09 | MEAS. NO.7 | -- |
| 10 | MEAS. NO.8 | -- |
| 11 | MEAS. NO.9 | -- |
| 12 | MEAS. NO.10 | -- |
| 13 | RECIPE ACCUM. VALUE | 0 |
| 14 | RECIPE ACCUM. TIMES | 0 |

<<RECIPE CODE SETTING>>

| | | |
|----|---------------------|----|
| 01 | RECIPE CODE | 7 |
| 02 | RECIPE NAME | -- |
| 03 | MEAS. NO.1 | -- |
| 04 | MEAS. NO.2 | -- |
| 05 | MEAS. NO.3 | -- |
| 06 | MEAS. NO.4 | -- |
| 07 | MEAS. NO.5 | -- |
| 08 | MEAS. NO.6 | -- |
| 09 | MEAS. NO.7 | -- |
| 10 | MEAS. NO.8 | -- |
| 11 | MEAS. NO.9 | -- |
| 12 | MEAS. NO.10 | -- |
| 13 | RECIPE ACCUM. VALUE | 0 |
| 14 | RECIPE ACCUM. TIMES | 0 |

(Compare:Default)

Footer

Minebea.CO.,Ltd.

Specifications

Communication Tool Software

EzCTS2

Spec. No. EN382EzCTS2

16/18

["Print Out Select" : "4 STEP COMPARATOR"]

Title

PARAMETER SHEET

Page : 1/17

Page number

Print information

Customer : Minebea Company
 Unit : MM37system
 NO. : 30009520
 Model : CSD-912
 S/N : 0970203
 Date : 2013/01/24

Set for each
4 STEP
COMPARATOR
Setting

<<< 4 STEP COMPARATOR SETTING >>>

| | |
|---------------------------|-----------|
| 01 BRAND CODE | 0 |
| 02 BRAND NAME | |
| 04 S1 | 100 |
| 07 S2 | 0 |
| 06 S3 | 0 |
| 05 S4 | 0 |
| 10 ZERO BAND | 0 |
| 11 FULL | 0 |
| 15 BRAND ACCUM. VALUE | 0 |
| 16 BRAND ACCUM. TIMES | 0 |
| 31 TARGET OF S1 OPERATION | NET |
| 32 TARGET OF S2 OPERATION | GROSS |
| 33 TARGET OF S3 OPERATION | NET |
| 34 TARGET OF S4 OPERATION | GROSS |
| 41 CONDITION OF S1 | MORE THAN |
| 42 CONDITION OF S2 | MORE THAN |
| 43 CONDITION OF S3 | MORE THAN |
| 44 CONDITION OF S4 | MORE THAN |

<<< 4 STEP COMPARATOR SETTING >>>

| | |
|---------------------------|-----------|
| 01 BRAND CODE | 3 |
| 02 BRAND NAME | |
| 04 S1 | 0 |
| 07 S2 | 0 |
| 06 S3 | 0 |
| 05 S4 | 0 |
| 10 ZERO BAND | 0 |
| 11 FULL | 0 |
| 15 BRAND ACCUM. VALUE | 0 |
| 16 BRAND ACCUM. TIMES | 0 |
| 31 TARGET OF S1 OPERATION | GROSS |
| 32 TARGET OF S2 OPERATION | GROSS |
| 33 TARGET OF S3 OPERATION | GROSS |
| 34 TARGET OF S4 OPERATION | GROSS |
| 41 CONDITION OF S1 | MORE THAN |
| 42 CONDITION OF S2 | MORE THAN |
| 43 CONDITION OF S3 | MORE THAN |
| 44 CONDITION OF S4 | MORE THAN |

4 STEP
COMPARATO
R Setting
Print area

<<< 4 STEP COMPARATOR SETTING >>>

| | |
|---------------------------|-----------|
| 01 BRAND CODE | 1 |
| 02 BRAND NAME | |
| 04 S1 | 0 |
| 07 S2 | 0 |
| 06 S3 | 0 |
| 05 S4 | 0 |
| 10 ZERO BAND | 0 |
| 11 FULL | 0 |
| 15 BRAND ACCUM. VALUE | 0 |
| 16 BRAND ACCUM. TIMES | 0 |
| 31 TARGET OF S1 OPERATION | GROSS |
| 32 TARGET OF S2 OPERATION | GROSS |
| 33 TARGET OF S3 OPERATION | GROSS |
| 34 TARGET OF S4 OPERATION | GROSS |
| 41 CONDITION OF S1 | MORE THAN |
| 42 CONDITION OF S2 | MORE THAN |
| 43 CONDITION OF S3 | MORE THAN |
| 44 CONDITION OF S4 | MORE THAN |

<<< 4 STEP COMPARATOR SETTING >>>

| | |
|---------------------------|-----------|
| 01 BRAND CODE | 4 |
| 02 BRAND NAME | |
| 04 S1 | 0 |
| 07 S2 | 0 |
| 06 S3 | 0 |
| 05 S4 | 0 |
| 10 ZERO BAND | 0 |
| 11 FULL | 0 |
| 15 BRAND ACCUM. VALUE | 0 |
| 16 BRAND ACCUM. TIMES | 0 |
| 31 TARGET OF S1 OPERATION | GROSS |
| 32 TARGET OF S2 OPERATION | GROSS |
| 33 TARGET OF S3 OPERATION | GROSS |
| 34 TARGET OF S4 OPERATION | GROSS |
| 41 CONDITION OF S1 | MORE THAN |
| 42 CONDITION OF S2 | MORE THAN |
| 43 CONDITION OF S3 | MORE THAN |
| 44 CONDITION OF S4 | MORE THAN |

<<< 4 STEP COMPARATOR SETTING >>>

| | |
|---------------------------|-----------|
| 01 BRAND CODE | 2 |
| 02 BRAND NAME | |
| 04 S1 | 0 |
| 07 S2 | 0 |
| 06 S3 | 0 |
| 05 S4 | 0 |
| 10 ZERO BAND | 0 |
| 11 FULL | 0 |
| 15 BRAND ACCUM. VALUE | 0 |
| 16 BRAND ACCUM. TIMES | 0 |
| 31 TARGET OF S1 OPERATION | GROSS |
| 32 TARGET OF S2 OPERATION | GROSS |
| 33 TARGET OF S3 OPERATION | GROSS |
| 34 TARGET OF S4 OPERATION | GROSS |
| 41 CONDITION OF S1 | MORE THAN |
| 42 CONDITION OF S2 | MORE THAN |
| 43 CONDITION OF S3 | MORE THAN |
| 44 CONDITION OF S4 | MORE THAN |

<<< 4 STEP COMPARATOR SETTING >>>

| | |
|---------------------------|-----------|
| 01 BRAND CODE | 5 |
| 02 BRAND NAME | |
| 04 S1 | 0 |
| 07 S2 | 0 |
| 06 S3 | 0 |
| 05 S4 | 0 |
| 10 ZERO BAND | 0 |
| 11 FULL | 0 |
| 15 BRAND ACCUM. VALUE | 0 |
| 16 BRAND ACCUM. TIMES | 0 |
| 31 TARGET OF S1 OPERATION | GROSS |
| 32 TARGET OF S2 OPERATION | GROSS |
| 33 TARGET OF S3 OPERATION | GROSS |
| 34 TARGET OF S4 OPERATION | GROSS |
| 41 CONDITION OF S1 | MORE THAN |
| 42 CONDITION OF S2 | MORE THAN |
| 43 CONDITION OF S3 | MORE THAN |
| 44 CONDITION OF S4 | MORE THAN |

Footer

Minebea.CO.,Ltd.

(Compare:Default)

Specifications

Communication Tool Software

EzCTS2

Spec. No.EN382EzCTS2

17/18

["Print Out Select" : " OPERATION SETTING"]

<< First Page >>

Title

PARAMETER SHEET

Page : 1/2

Page number

Print information

Customer : Minebea Company
 Unit : MM37system
 NO. : 3009520
 Model : CSD-912
 S/I1 : 0970203
 Date : 2013/01/24

<<WEIGHING OPERATION SETTING>>

| | | |
|----|-------------------------|-----------------|
| 01 | WEIGHING MODE | SEQUENTIAL MODE |
| 02 | CONTROL MODE | BATCH MODE |
| 03 | COMPARISON | AT BATCH FINISH |
| 04 | COMP. OF ZERO BAND | GROSS |
| 05 | COMPARATIVE OF FULL | GROSS |
| 06 | RECIPE MODE | INHIBIT |
| 07 | SAVE THE A.F.F | NO MEMORIZE |
| 11 | SAFETY CHECK1(BATCHING) | OFF |
| 12 | SAFETY CHECK2(BATCHING) | OFF |
| 13 | SAFETY CHECK3(BATCHING) | OFF |
| 14 | SAFETY CHECK4(BATCHING) | OFF |
| 15 | SAFETY CHECK5(BATCHING) | OFF |
| 16 | SAFETY CHECK6(BATCHING) | OFF |
| 17 | SAFETY CHECK7(BATCHING) | OFF |
| 18 | SAFETY CHECK8(BATCHING) | OFF |
| 21 | SAFETY CHECK1(DISCH.) | OFF |
| 22 | SAFETY CHECK2(DISCH.) | OFF |
| 23 | SAFETY CHECK3(DISCH.) | OFF |
| 24 | SAFETY CHECK4(DISCH.) | OFF |
| 25 | SAFETY CHECK5(DISCH.) | OFF |
| 26 | SAFETY CHECK6(DISCH.) | OFF |
| 27 | SAFETY CHECK7(DISCH.) | OFF |
| 28 | SAFETY CHECK8(DISCH.) | OFF |
| 31 | SAFETY CHECK1(RECIPE) | OFF |
| 32 | SAFETY CHECK2(RECIPE) | OFF |
| 33 | SAFETY CHECK3(RECIPE) | OFF |
| 34 | SAFETY CHECK4(RECIPE) | OFF |
| 35 | SAFETY CHECK5(RECIPE) | OFF |
| 36 | SAFETY CHECK6(RECIPE) | OFF |
| 37 | SAFETY CHECK7(RECIPE) | OFF |
| 38 | SAFETY CHECK8(RECIPE) | OFF |
| 41 | SAFETY CHECK1(MIXING) | OFF |
| 42 | SAFETY CHECK2(MIXING) | OFF |
| 43 | SAFETY CHECK3(MIXING) | OFF |
| 44 | SAFETY CHECK4(MIXING) | OFF |
| 45 | SAFETY CHECK5(MIXING) | OFF |
| 46 | SAFETY CHECK6(MIXING) | OFF |
| 47 | SAFETY CHECK7(MIXING) | OFF |
| 48 | SAFETY CHECK8(MIXING) | OFF |
| 51 | SAFETY CHECK1(SEQUENCE) | OFF |
| 52 | SAFETY CHECK2(SEQUENCE) | OFF |
| 53 | SAFETY CHECK3(SEQUENCE) | OFF |
| 54 | SAFETY CHECK4(SEQUENCE) | OFF |
| 55 | SAFETY CHECK5(SEQUENCE) | OFF |
| 56 | SAFETY CHECK6(SEQUENCE) | OFF |
| 57 | SAFETY CHECK7(SEQUENCE) | OFF |
| 58 | SAFETY CHECK8(SEQUENCE) | OFF |
| 61 | AUTOMATIC ACCUM. | OFF |
| 62 | CONDITION OF AUTO ACM. | NO CONDITION |
| 63 | AUTO RECIPE CODE ACM. | INHIBIT |
| 64 | AUTOMATIC PRINT | INHIBIT |

<<BASIC FUNCTION SETTING>>

| | | |
|----|-------------------------|---------------------------|
| 01 | DISP. REFRESH RATE | 4 TIMES/s |
| 02 | A/D SAMPLING RATE | 200 TIMES/s |
| 03 | ANALOG FILTER | 4HZ |
| 04 | DIGITAL FILTER | 1 |
| 05 | STABILIZATION FILTER | 40 |
| 06 | STAB. FILTER TIME | 5 [x0.1 S] |
| 07 | STAB. FILTER BAND | 20 [x0.1 D] |
| 08 | STAB. DETECTION TIME | 10 [x0.1 S] |
| 09 | STAB. DETECTION BAND | 20 [x0.1 D] |
| 10 | OPERATION OF ZERO | ANYTIME |
| 11 | RANGE OF ZERO | 5 [x1 g] |
| 12 | TARGET OF ZERO TRACKING | GROSS |
| 13 | ZERO TRACKING TIME | 0 [x0.1 S] |
| 14 | ZERO TRACKING BAND | 0 [x0.1 D] |
| 15 | OPERATION OF TARE | ANYTIME |
| 16 | RANGE OF TARE | GROSS<= Abs.(MAX. WEIGHT) |
| 17 | OPERATE OF PRESET TARE | VALID |
| 18 | PRESET TARE=0 CHOICE | OPERATION OF TARE CLR. |
| 19 | ZERO AT POWER ON | INHIBIT |
| 20 | ZERO CLR. AT POWER ON | INHIBIT |
| 21 | TARE AT POWER ON | INHIBIT |
| 22 | TARE CLR. AT POWER ON | INHIBIT |
| 23 | OPERATION OF HOLD | SYNC. WITH HOLD |
| 24 | ACCUM. COMMAND | IN STABLE MODE |
| 25 | PRINT COMMAND | IN STABLE MODE |
| 26 | GRAPH TRIGGER SETTING | SINGLE |
| 27 | GRAPH TRIGGER LEVEL | 0 |
| 28 | SELECTION OF SCREEN | STANDARD |
| 29 | OPERATION OF STABILITY | ANYTIME |
| 31 | COMPARE RESULT HOLD | INHIBIT |
| 32 | S-I/F HOLD | VALID |
| 33 | CC-LINK HOLD | INHIBIT |
| 34 | LOAD DISP. VALUE HOLD | VALID |

<<I/O SETTING>>

| | | |
|----|-----------------------|---------|
| 02 | FUNCTION OF F1 KEY | OFF |
| 03 | FUNCTION OF F2 KEY | OFF |
| 04 | FUNCTION OF F3 KEY | OFF |
| 05 | FUNCTION OF F4 KEY | OFF |
| 11 | I/O INPUT 1 | OFF |
| 12 | I/O INPUT 2 | OFF |
| 13 | I/O INPUT 3 | OFF |
| 14 | I/O INPUT 4 | OFF |
| 15 | I/O INPUT 5 | OFF |
| 16 | I/O INPUT 6 | OFF |
| 17 | I/O INPUT 7 | OFF |
| 18 | I/O INPUT 8 | OFF |
| 19 | I/O INPUT 9 | OFF |
| 20 | I/O INPUT 10 | OFF |
| 21 | I/O INPUT 11 | OFF |
| 31 | I/O OUTPUT 1 | OFF |
| 32 | I/O OUTPUT 2 | OFF |
| 33 | I/O OUTPUT 3 | OFF |
| 34 | I/O OUTPUT 4 | OFF |
| 35 | I/O OUTPUT 5 | OFF |
| 36 | I/O OUTPUT 6 | OFF |
| 37 | I/O OUTPUT 7 | OFF |
| 38 | I/O OUTPUT 8 | OFF |
| 39 | I/O OUTPUT 9 | OFF |
| 40 | I/O OUTPUT 10 | OFF |
| 41 | I/O OUTPUT 11 | OFF |
| 51 | ZERO KEY LOCK | INHIBIT |
| 52 | GROSS/NET KEY LOCK | INHIBIT |
| 53 | TARE KEY LOCK | INHIBIT |
| 54 | BRAND CODE KEY LOCK | INHIBIT |
| 55 | F-KEY LOCK | INHIBIT |
| 56 | MENU KEY LOCK | INHIBIT |
| 57 | CALIBRATION KEY LOCK | INHIBIT |
| 61 | I/O OUTPUT LOGIC 1-7 | 1111111 |
| 62 | I/O OUTPUT LOGIC 8-11 | 2111 |

(Compare:Default)

Various settings
Print area

Footer

Minebea.CO.,Ltd.

Specifications

Communication Tool Software

EzCTS2

Spec. No. EN382EzCTS2

18/18

["Print Out Select" : " OPERATION SETTING"]

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PARAMETER SHEET

Page :2/2

Customer : Minebea Company
 Unit : MM37system
 NO. : 3009520
 Model : CSD-912
 S/H : 0970203
 Date : 2013/01/24

<<SEQUENCE CONTROL SETTING>>

| | | |
|----|-------------------------|-----------------------|
| 01 | START ABOVE ZERO BAND | INHIBIT |
| 02 | AUTOMATIC TARE | INHIBIT |
| 03 | NOZZLE CONTROL | INHIBIT |
| 04 | CONTACT STOP SEQUENCE | INHIBIT |
| 05 | UP AFTER COMPENSATE | INHIBIT |
| 06 | JUDGE CONDITION | STAB. AND TIMER IS UP |
| 07 | MIXING START (M.C.) | INHIBIT |
| 08 | DISCHARGE START (M.C.) | INHIBIT |
| 09 | TARE CLEAR (D.F.A.) | INHIBIT |
| 10 | MIXING START (D.F.A.) | INHIBIT |
| 11 | AUTOMATIC ZERO START | INHIBIT |
| 12 | TARE CLEAR (R.C.) | INHIBIT |
| 13 | MIXING START (R.C.) | INHIBIT |
| 14 | DISCHARGE START (R.C.) | INHIBIT |
| 15 | MAXTIME OF COMPENSATE | 0 |
| 16 | COMPARISON FLOW EVAL | TIMER IS UP |
| 17 | A.F.F. COMPENSATION | INHIBIT |
| 18 | BATCH FINISH OUTPUT OFF | NO CONDITION |
| 21 | TARE BATCH START DELAY | INHIBIT |
| 22 | BATCH MONITORING TIMER | 0 [x1 S] |
| 23 | BATCH START DELAY TIMER | 0 [x1 S] |
| 24 | F-FLOW COMP. STOP TIMER | 0 [x0.01 S] |
| 25 | M-FLOW COMP. STOP TIMER | 0 [x0.01 S] |
| 26 | D-FLOW COMP. STOP TIMER | 0 [x0.01 S] |
| 27 | WAITING TIME FOR JUDGE | 0 [x0.01 S] |
| 28 | DISCH. MONI. TIMER | 0 [x1 S] |
| 29 | DISCH. GATE CLOSE DELAY | 0 [x0.01 S] |
| 30 | BATCH FINISH OUTPUT ON | 0 [x0.01 S] |
| 31 | DISCH. FINISH OUTPUT ON | 0 [x0.01 S] |
| 32 | RECIPE FINISH OUTPUT ON | 0 [x0.01 S] |
| 33 | MIXING FINISH OUTPUT ON | 0 [x0.01 S] |
| 34 | MIXING THE OUTPUT ON | 0 [x1 S] |

<<CALIBRATION>>

| | | |
|------|-------------------------|----------------------|
| 01 | ZERO ADJUSTMENT | 0 |
| 02 | SPAN ADJUSTMENT | 10000 |
| 03 | WEIGHING CAPACITY | 10000 |
| 05 | DIVISION | 1 |
| 06 | ZERO POINT mV/V | |
| 07 | SPAN POINT mV/V | |
| 11 | DECIMAL POINT | 0 |
| * 12 | UNIT | kg |
| 13 | BRIDGE POWER SUPPLY | 12V |
| * 14 | OL DISPLAY CONDITION | (+ or -) 100% |
| * 21 | ADJ. GRAV. ACCELERATION | GRAVITY ACCELERATION |
| * 22 | CALIB. PLACE No. | 4 |
| * 23 | OPERATION PLACE No. | 4 |
| * 24 | CALIB. PLACE G.A. | 9000 [x0.001] |
| * 25 | OPERATION PLACE G.A. | 9000 [x0.001] |
| 26 | ZERO POINT mV/V | 0 [x0.00001] |
| * 27 | SPAN POINT mV/V | 2000 [x0.00001] |

(Compare:Default)

Minebea.CO.,Ltd.

Various settings
Print area