# Additional Information (FZ-*i*/*i*WP/CT/GD series)

#### Contents

This manual describes additional functions for the FZ-i series, FZ-iWP series, FZ-CT series and FZ-GD series.

- Date and time output ..... The Date and time can be added to the weighing data format.
- □ The Function switch..... The description of the switches to protect parameters.
- Correcting the internal mass value using an external calibration weight value. The correction method can be selected form either the correction 1 or correction 2.
  - The internal mass ..... Calibrating the balance with internal mass, measuring an external correction 1 calibration weight, calculating the correction value, and storing it in the balance.
  - The internal mass ..... Calibrating the balance with an external calibration weight, correction 2
     correcting and storing the internal mass value with automatic calibration using the internal mass.

#### Caution

- □ The FX-*i* series, FX-*i*WP series, FX-CT series and FX-GD series do not have an internal mass and the date and time function.
- In the factory settings, the internal mass correction function can not be changed to protect against unintentional operations. When using the function, change the function switch to "**Permit**". Refer to "**The Function Switch**" on the next page or "**Permit Or Inhibit**" of the instruction manual.

## Date and Time Output

With the parameters of "Time/Date output (5-bd)" in "Data output (daub)", **Date** and **time** can be added to the data format of weighing data.

#### The Function Table For Output Of Date And Time

	dout 5-to Data out Time	5- <i>⊱d</i> Time/Date output	0	No output (Factory settings)
				Time only
			2	Date only
			3	Time and date

### The Data Format Of Date And Time

Date dout 5-Ed 2 or 3

This format can be changed in "Clock (Refer to [L Rdd])". The year is output in a four-digit format.

2 0 0 9 / 1 2 / 3 1 C<sub>R</sub>L<sub>F</sub>

Date Terminator

Time doub 5-bd / or 3

This format outputs time in 24-hour format.

Time

Terminator

1WMPD4002000

### **The Function Switch**

The balance has function switches to protect the parameters against unintentional operations. When using the internal mass correction function, change each function switch to "**Permit**".

1/10d SAMPLE

PS

1/10d SAMPLE

End

<sup>©</sup> PRINT

8-00 I I))

R-lxxx!

© PRINT

Press and hold

I/O ON:OFF

Press

#### Procedure

- Step 1 Press the ON:OFF key to turn off the display.
- Step 2 While pressing and holding the PRINT key and the SAMPLE key, press the ON:OFF key to display P5
- Step 3 Press the PRINT key. Then the balance displays the function switches.
- Step 4 Set the switches using the following keys.
  - SAMPLEkeyTo select a switch to change the parameter.The selected switch blinks.
  - <u>RE-ZERO</u> key To change the parameter of the switch selected.
    - To permit the change.

<u>PRINT</u> key To store the new parameter and return to the weighing mode.

CAL key To cancel the operation and return to the weighing mode.





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## The Internal Mass Correction 1

- The correction 1 corrects the internal mass using an external calibration weight.
   Calibrate the balance with the internal mass. Measure an external calibration weight. Calculate the correction value. And store it in the balance.
- □ The correction range of the internal mass value is as follows:

	Model		External calibration weight	Allowance range
FZ-300CT			50 g	
FZ-600CT FZ-120 <i>i</i>	FZ-120 <i>i</i> WP	FZ-120GD	100g	±0.050g
FZ-200 <i>i</i> FZ-300 <i>i</i>	FZ-200 <i>i</i> WP FZ-300 <i>i</i> WP	FZ-200GD FZ-300GD	200 g	
FZ-1200 <i>i</i>	FZ-1200 <i>i</i> WP	FZ-1200GD	1 kg	
FZ-2000 <i>i</i> FZ-3000 <i>i</i>	FZ-2000 <i>i</i> WP FZ-3000 <i>i</i> WP	FZ-2000GD FZ-3000GD	2 kg	±0.50g

#### Procedure

Example : Correcting the weight value by +0.003g in 100g using the FZ-120*i*WP. If correcting the weight value by +0.003g in 50g, the weight is changed into 100g, and the correction value is



- Step 1 Perform one-touch calibration. Measure an external calibration weight. Calculate the correction value.
- Step 2 Change the function switch of "Internal Mass Correction" and "The Function Table" to "Permit".
- Step 3 Press and hold the SAMPLE key to enter the function table and release the key when bR5Fnc is displayed.
- Step 4 Press the SAMPLE key several times until
- Step 5 Press the PRINT key to correct the internal mass value using the following keys.

 RE-ZERO
 key
 To increase the value.
 Value is displayed -50 digits after +50 digits.

 MODE
 key
 To decrease the value.
 digits after +50 digits.

 PRINT
 key
 To store the new parameter and return to the weighing mode.
 cancel the operation and return to the weighing mode.

- Step 6 Press the CAL key to return the weighing mode.
- Step 7 Press the CAL key to perform the one-touch calibration.
- Step 8 Measure an external calibration weight and confirm that the weighing error is within the specified value in the "Specifications" of the instruction manual. If not, perform the internal mass correction and calibration.



## The Internal Mass Correction 2

- The correction 2 corrects the internal mass using an external weight.
   Calibrate the balance with an external calibration weight. Correct and store the internal mass value with automatic calibration using the internal mass.
- The corrected mass value is maintained in memory even if the AC adapter is removed.
   The target range and allowance of an external weight is as follows:

