# BM Series Additional Information

## Overview
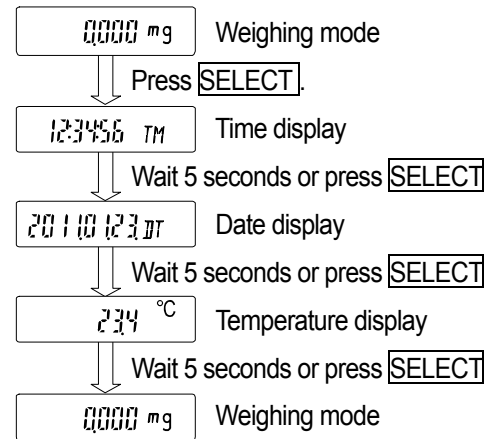
This supplementary manual describes functions that have been added to the BM series.

☐ Temperature measurement during weighing:

The balance has an embedded temperature sensor.

The temperature of the setup environment of the balance can be displayed and output.

Measurement precision is ±1.5 °C (between 5 and 40 °C).

*The result is temperature inside the balance.

☐ External control of the static charge eliminator (Ion function):

By connecting an AD-8922A remote controller or using the external input on the rear of the balance, the static charge eliminator can be switched on and off without needing to press a button on the balance.

## Displaying the Temperature

☐ In the weighing mode, press the  SELECT  key. The display shows each of the following items for 5 seconds in the following order: time, date, and temperature. After all items have been displayed, the display returns to the weighing mode.

To proceed to the next item while an item is displayed, press the  SELECT  key.

*The unit for display is °C.

| | |
|---|---|
| 0000 mg | Weighing mode |
| ↓ | Press SELECT. |
| 123456 TM | Time display |
| ↓ | Wait 5 seconds or press SELECT |
| 20110123 DT | Date display |
| ↓ | Wait 5 seconds or press SELECT |
| 234 °C | Temperature display |
| ↓ | Wait 5 seconds or press SELECT |
| 0000 mg | Weighing mode |

## Outputting the Temperature

☐ To add the temperature to the weighing data output, select the "*dout*" (data output) settings and change the "*S-tP*" (add temperature) setting.

### Temperature output setting (added after the setting "*Ar-d*")

| | | | |
|---|---|---|---|
| *dout*<br>Data output | *Ar-d*<br>Zero after output | ▪*oFF* | Not used |
| | | *on* | Used |
| | *S-tP*<br>Add temperature | ▪*oFF* | Do not output temperature |
| | | *on* | Output temperature |

} New

▪ Factory setting

### Data format for temperature output

Temperature   *dout*   *S-tP*   *on*   *The unit for output is "C".

| + | 0 | 2 | 3 | . | 4 | ␣ | ␣ | C | C<sub>R</sub> | L<sub>F</sub> |
|---|---|---|---|---|---|---|---|---|---|---|

# External Control of the Ion Function (Static Charge Eliminator)

☐ To assign the Ion function to the ⌑MODE⌑ key of the AD-8922A remote controller, select the "*ionFnc*" (Static elimination) settings and change the "*8922*" (AD-8922A control) setting.

☐ To assign the Ion function when using both the AX-T-314A-S external key plug and AX-SW128 foot switch (both sold separately), select the "*ionFnc*" (Static elimination) settings and change the "*E-S*" (external input control) setting.

## Ion function control settings (added after the setting "*ion*")

| *ionFnc*<br>Static eliminator | *ion*<br>Neutralization time | ∎ *0* | 3 seconds | |
|---|---|---|---|---|
| | | *1* | 10 seconds | |
| | | *2* | Manual operation (max. 10 min.) | |
| | *8922*<br>AD-8922A control | ∎ *oFF* | Do not control the Ion function with the AD-8922A | ⎫ New |
| | | *on* | Assign the Ion function to the ⌑MODE⌑ key of the AD-8922A. | |
| | *E-S*<br>External input control<br>(See the figure below for terminals) | ∎ *0* | **1.** ⌑PRINT⌑ key, **2.** ⌑RE-ZERO⌑ key | |
| | | *1* | **1.** ⌑PRINT⌑ key, **2.** ⌑ION⌑ key | |
| | | *2* | **1.** ⌑ION⌑ key, **2.** ⌑RE-ZERO⌑ key | |

∎ Factory setting

*External key plug
AX-T-314A-S
(Sold separately)

**Terminal 1**

**Terminal 2**

**GND**