

## Instruction manual for Moisture Meter for Compost Model SK-950A

Thank you for purchasing Sato's Moisture Meter for Compost Model SK-960A.  
Read this manual thoroughly before use and keep it in a safe place for future reference whenever necessary.

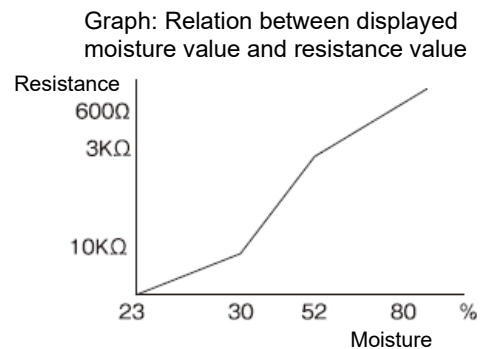
### Before Use

SK-950A is designed to measure the electric resistance in electrode in the probe and display a value that represents the moisture content. As it has temperature compensation function, you do not need to compensate temperature against the measured value within 0 to 80°C.

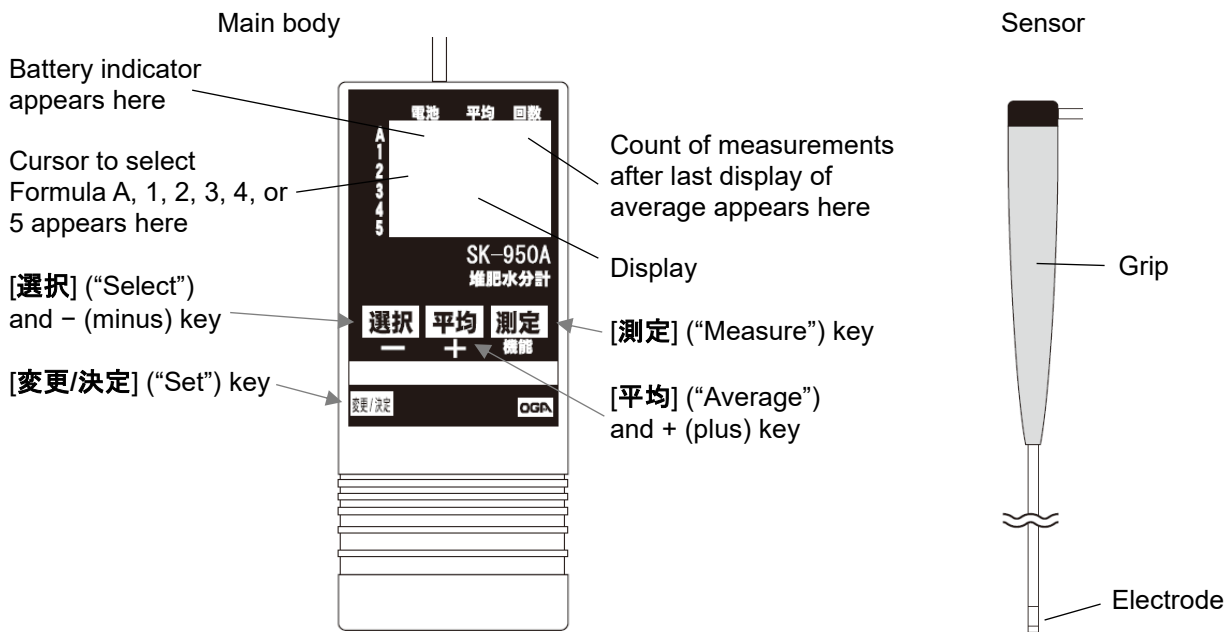
The displayed reading is not an absolute value but is relative to electric resistance. If compost has a high concentration of highly conductive substances such as salt or metals, the reading will be higher than the actual moisture content. However, as long as these substances are in small quantities and are evenly distributed throughout the compost, and so have little effect on the moisture content value, this device is useful for comparative examinations after proper setting.

SK-950A has six editable conversion formulae including one standard formula (Formula A) and five customized formulae (Formulae 1 to 5). By default, the setting values in all formulae are tentatively set as shown in the right graph. To modify the formulae, refer to "Setting of Customized Formulae."

Note: The Formula A, based on compost made of equal amount of cattle feces and sawdust, can also be edited but it is recommended to not to change it for future convenience.



### Names of Parts



### How to Use

1. Check that the electrode is clean. When it is dirty, rinse and wipe it with a dried cloth. Do not rinse the part other than the electrode.
2. Press [測定] ("Measure", rightmost key) and confirm that "L" (which means below the range) is displayed.
3. Press [選択] ("Select", key above - sign) to move the cursor (▲) to choose either formula A, 1, 2, 3, 4, or 5.
4. Penetrate the point of the electrode to the position to be measured in the compost.

If there is a temperature gap between the electrode and the compost, wait for 30 seconds to remove the gap to prevent errors. Also, keep the same pressure to the sensor to stabilize the reading.

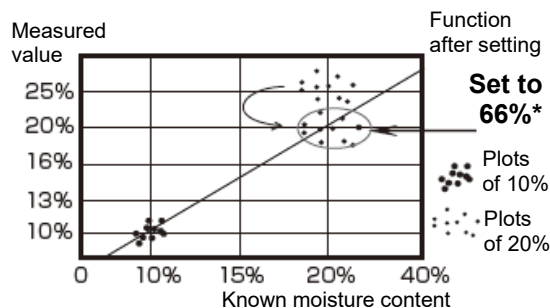
5. Press [測定] (“Measure”, rightmost key).
6. For accurate reading, measure the same point repeatedly and press [平均] (“Average”, key above + sign) to show an average.
7. Clean the electrode after the measurement.
8. The device turns off automatically when one minute has passed.

### Setting of Customized Formulae

Each angle and equilibrium of five conversion formulae can be modified individually. Formula A can also be edited, but it is advised to remain it.

#### Angle change

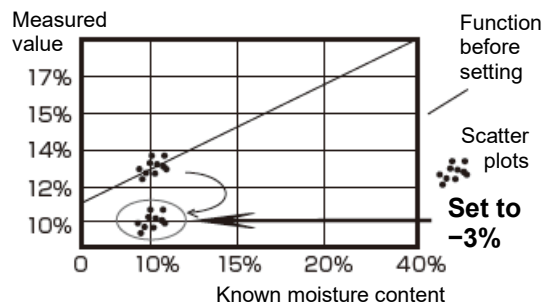
1. Press [選択] (“Select”, key above – sign) to choose the formula to be edited.
2. Press [変更/決定] (“Set”, lower left key).  
A character of “A” appears at the upper right, and the current angle is shown. The default value is “100” in all formulae.
3. Press + or – key to modify the value, available between 0 and 199. The value increases or decreases continuously by a long press for more than 1 second.  
In the right case, set it to 66 referring to the equation  $A^*$ .
4. Press [変更/決定] (“Set”, lower left key) to complete, or go to the next step if you also change the equilibrium.



$$A^* = \frac{\text{Difference of known values}}{\text{Difference of measured values}} = \frac{20\% - 10\%}{25\% - 10\%} = 66\%$$

#### Parallel change

1. Press [測定] (“Measure”, rightmost key) when the angle is displayed.  
The character at the upper right changes to “H” and the current equilibrium is shown. The default value is “0.0” in all formulae.
3. Press + or – key to modify the value, available between –19.9 and 19.9. The value increases or decreases continuously by a long press for more than 1 second.  
In the right case, set it to –3.0.
4. Press [変更/決定] (“Set”, lower left key) to complete, or press [測定] (“Measure”, rightmost key) to go back to angle change.
5. If a measured value was displayed before the setting, a recalculated value is displayed.



### Specifications

- Name: Moisture Meter for Compost Model SK-950A
- Method: Electric resistance measurement
- Measuring range: 23.0 to 80.0% for Formula A, “H” or “L” is displayed above/below the range  
23.0 to 99.9% for customized formulae, “H” or “L” is displayed above/below the range
- Temperature compensation range: 0 to 80°C without freezing
- Power: One 9V battery
- Dimensions: Main body: 61 (W) x 146 (H) x 23 (D) mm  
Electrode: Ø 10 mm x 800 mm long  
Cable: 800 mm long
- Weight: 143 g including a battery

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