

Notes on Using the Wireless Thermometer AT210

Version 1.1 (May 2022)

Identifying the Units

In a AT210-COMBO, there are two units. One is the thermometer (AT210-A), which has three ports on the bottom: power input connector, buzzer port, and the mini thermocouple connector. The other unit is the monitor (AT210-B), which only has one port on its bottom: the power input connector.

Standard Application

1 x Monitor (1 x AT210-B)

1 x Thermometer (1 x AT210-A)

This is the standard configuration. Usually, you don't need to change any settings other than adjust the alarm settings in the 0001 menu.

Extended Application

1 x Monitor (1 x AT210-B)

2 x Thermometers (2 x AT210-A) or more

In this configuration, you need to set the thermometers to different ID numbers. By default, the ID number on the thermometer is set to "001". You can choose one thermometer as the second unit and change its ID number to "002". On the monitor unit, the user can change the ID number to match with a specific thermometer in order to receive the temperature reading remotely.

Notes for the Extended Application

A. What happens if two thermometer units are assigned to the same ID number.

If both thermometer units (AT210-A) have the same ID number, the monitor unit will pair with the whichever thermometer unit that is closer or have a stronger RF signal.

B. After rebooting one of the thermometer units, the reading becomes erroneous and triggers the alarm buzzer.

This issue happens when all of the following conditions are met:

- 1) All three units are powered up.
- 2) The remote unit is currently paired with one of the thermometer units.
- 3) The power to the unpaired thermometer unit is cycled.

For example, two of the thermometer (AT210-A) units have their ID number set as “001” and “002” respectively. The remote unit (AT210-B) is currently receiving temperature reading from thermometer unit “002”. So, the thermometer unit “001” is currently **NOT paired** with the monitor (AT210-B). When this thermometer unit “001” is switch off and then switched on again, the temperature reading jump to around 2223°F with the sensor plugged in (Note: press the SHIFT “>” key the mute the buzzer.), or show -20°F if the sensor is unplugged.

However, this error is temporary and it can be fixed by following the steps below.

To fix this issue:

- 1) Switch **OFF** the monitor unit (AT210-B) by unplug its power cord.
- 2) Then, cycle the power to the thermometer (AT210-A) unit whose reading is erroneous. The temperature reading should go back to normal.
- 3) Switch **ON** the monitor unit again by plugging in the power cord. Now, the system should work correctly as before.

Special Note

The AT210 system is designed to use one monitor unit (AT210-B) to read from one or more thermometers (AT210-A). Other combinations are **NOT** recommended **NOR** supported. Using two monitors (AT210-B) and two thermometers (AT210-A), i.e., two sets of AT210-COMBO, can result in communication failure and all units won't be able to function properly.

(However, in only one special case, where there are two monitors (AT210-B) and only one thermometer (AT210-A), the system can work fine most of the time. Both monitors can receive temperature reading from the thermometer, but occasionally they will lose connection and show “----”. Usually, the readings will repopulate shortly.)

Please [contact us](#) for any question during the troubleshooting process.

(End)

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