

# Instruction manual

## A&I 12 DIGITAL INCUBATOR



### What you should find inside your packaging

- Foam protection
- Incubator
- Power cord
- Instruction manual

### Factory settings

These units come factory preset suitable for incubating most poultry. Unless these settings are not suitable for your eggs, this the unit does not need any adjustments.

These incubators are suitable for most poultry, the only adjustment that might need changing is the temperature. Slightly higher or lower as is required.

### Returning your unit back to factory settings

If you're like most people, I'm one of them, you'll probably start changing the settings before you've read the manual. When the buttons are pressed in an illogical order it often results in the PCB (incubator computer) freezing and no changes are possible. Much the same as a laptop or PC could freeze.

Fortunately there is an easy fix.

Just press the **[+]** and **[-]** buttons simultaneously and hold them in for 5 seconds. The unit should go back to the original settings.

### Using your incubator for the first time

We can't stress enough the fact that one should first run the incubator a day or two making sure that all is working well and that the temperature and humidity are stable. Only put eggs in the unit once you're satisfied with the performance of the unit.

Unpack your unit making sure that it is complete and has arrived in good order without damage. Once this is done you can proceed with setting your incubator up.

Testing your unit:

- Open the unit and add water to the channels in the bottom of the unit.  
*The humidity in these units is not controlled, it is managed by adding or reducing the water in the bottom of the unit.*
- Proceed to connect the egg tray to the plug inside the unit  
Plug the unit plug in the power supply
- Switch the unit on. The alarm will start beeping right away indicating low temp and possibly low humidity. By pressing once on the **[-]** button the beeping will stop.
- You will notice the temperature and humidity rising. The egg tray will turn every 2 hours.

### Setting the temperature

The unit comes factory set to 37.5 C. If you need to raise or lower the temperature push the **[Set]** button once. Then press the **[+]** or **[-]** button as required. Press the **[Set]** button again to exit the temperature setting.

### Changing the temperature alarm parameter settings (AL and AH)

The temperature alarm parameters are factory set to sound at 1° C above or 1° C below the set temperature. This is adequate for almost every situation and should not need adjusting.

#### Low temperature alarm parameter setting. (AL)

- Press and hold the **[Set]** button for 3 seconds.
- Scroll through the codes by using the **[+]** or **[-]** until **(AL)** appears in the display screen.
- Press **[Set]** and adjust the parameter to your desired setting using the **[+]** or **[-]** buttons.

#### High temperature alarm parameter setting. (AH)

- Press and hold the **[Set]** button for 3 seconds.
- Scroll through the codes by using the **[+]** or **[-]** until **(AH)** appears in the display screen.
- Press **[Set]** and adjust the parameter to your desired setting using the **[+]** or **[-]** buttons.

### Changing the humidity alarm parameter setting (AS)

The humidity alarm parameters are factory set to sound at 45 % humidity. This is sufficient and should not need adjusting.

#### Low humidity alarm parameter setting. (AS)

- Press and hold the **[Set]** button for 3 seconds.
- Scroll through the codes by using the **[+]** or **[-]** until **(AS)** appears in the display screen.
- Press **[Set]** and adjust the parameter to your desired setting using the **[+]** or **[-]** buttons.

When 2 channels are filled with water the humidity should rise to approximately 60%. This depends on the ambient humidity where the unit is used. They will need to be filled every 4 to 5 days. Three days prior to hatching, the egg turning tray can be removed and the eggs placed on the grid. The channels can be over filled allowing water to spill over into the bottom of the unit. This normally increases the humidity to 65%.

### Calibrating temperature sensor reading (CA)

This is something that should not need to be done but if you're sure that the reading is incorrect you can adjust it.

- Press and hold the **[Set]** button for 3 seconds.
- Scroll through the codes by using the **[+]** or **[-]** until **(CA)** appears in the display screen.
- Press **[Set]** and adjust the parameter to your desired setting using the **[+]** or **[-]** buttons.

Note that the adjustment is the difference between the displayed temperature and thermometer reading. It should be adjusted with **[-]** if the temperature reading of the incubator is too high and **[+]** if the incubator reading is too low.

### Temperature 'Upper' and 'lower' limit setting (HS and LS)

By setting the **(HS)** and **(LS)** you can limit the range of the incubator's temperature setting.

If **(HS)** is set at 38.2° C and **(LS)** is set at 37.4° C then the incubating temperature setting range is between 38.2° - 37.4°.

This is to prevent accidental increasing or decreasing of the incubation temperature.

### Display symbols

Symbol	Meaning	Factory setting
<b>AL</b>	Low temperature alarm parameter setting	1° C
<b>AH</b>	High temperature alarm parameter setting	1° C
<b>AS</b>	Low humidity alarm parameter setting	45%
<b>CA</b>	Calibrating the temperature sensor reading	0° C
<b>HS</b>	Temperature high limit setting	39.5° C
<b>LS</b>	Temperature low limit setting	30° C
<b>HU</b>	Heating starts	18
<b>HD</b>	Heating stops	11