INSTRUCTION MANUAL OF IW001-WWVB (V1.2) at March 26, 2009

Buttons

- (C/F) / WAVE
+ / TIME ZONE
SET / ALM SET
SNOOZE / LIGHT
MAX-MIN
OUT TEMP (RF REGISTER)
RESET

QUICK SETUP

Place your Atomic Weather Station close to a window and away from metal surfaces, electrical appliances and strong magnetic field. Keep it at least 3 feet away from the AC outlet or AC/DC adaptor.

Step 1 Plug in the AC/DC adaptor to any AC household outlet. Then plug in the DC jack to the back of your unit. Inset the stand to the bottom of your weather station.

Step 2 Slide open the battery cover at the back of your weather station, then insert 3 x AA alkaline batteries (included) to the back of your weather station. Replace the battery cover.

Step 3 Press and hold **+/ TIME ZONE** to set your time zone, the time zone icons appear on top of the time digits ("P" for Pacific Standard Time, "M" for Mountain Standard Time, "C" for Central Standard Time, "E" for Eastern Standard Time) , then press and hold **+/TIME ZONE** for 2 seconds each time to select your time zone.

Step 4 Keep your Atomic Weather Station and wireless sensor next to each other. Slide open the battery cover at the back of your wireless outdoor sensor, then insert 2 x AA alkaline batteries to the back of it. Replace the battery cover. Your weather station will receive data signal from the outdoor sensor in few seconds. Then place your outdoor sensor in a dry and shaded area outdoor.

Step 5 Peel off the protective label on the front of your weather station clock. Your Atomic Weather Station is ready to work for you.

Step 6 After your weather station receives the outdoor temperature and humidity, it will start to search for the WWVB signal. This may take overnight In case your weather station does not catch the WWVB signal during the day, set the clock manually.

Remarks:
1. Keep in mind that your outdoor sensor has a 100-feet open air transmission with no obstructions. Actual transmission range will vary depending on what is in the path of the signal. Each obstruction (roof, walls, floors, ceilings, thick trees, etc.) will effectively cut signal range in half.

2. During reception of the atomic time signal, all buttons does not function and your weather station does not take temperature and humidity measurement. After first time installation, the temperature and relative humidity readings will get stable and become more accurate in around 30 minutes.

BACK-UP BATTERIES

When the AC power is off, the batteries will back up the clock to keep the time, alarm time and calendar. The always-on backlite of LCD is off when only the back-up batteries are being used.

WWVB RECEPTION

Your atomic weather station will automatically update itself to the exact time after receipt of the WWVB time code. This typically takes over night. The clock will automatically attempt to receive the WWVB signal every night at 1:00 am, 2:00am, 3:00 am, 4: 00 am and onwards. If it receives WWVB signal at 3:00 am it will stop receiving and start receiving at 1: 00 am next day.

Manual reception of WWVB: press and hold the **– / C/F / WAVE** for 2 seconds. The WWVB icon will appear and flash. To stop WWVB reception, press and hold the – / C/F / WAVE for 2 seconds

TO ADJUST THE VIEWING ANGLE

You could adjust your weather station clock to 3 different angles for better viewing. (insert drawing)

TO SET CALENDAR, TIME, DAYLIGHT SAVING TIME, 12/24 HR TIME FORMAT

1. Press and hold **SET / ALM SET** for 2 seconds, time digits change to year "2009 YR" and flash. Press + / - to set year.

2. Then press **SET / ALM SET** once again, month digits flash. Press +/- button to set month.

3. Then press **SET / ALM SET** once again, date digits flash. Press +/- button to set date.

4. Then press **SET / ALM SET** once again, time digits change to "DST ON", press +/- to select "**DST OFF**" for locations where DST does not apply i.e. part of Arizona and Indiana

5. Then press **SET / ALM SET** once again, time digits change to "**12 Hr**", press +/- to select "**24 Hr**"

4. Then press **SET / ALM SET** once again, time digits "AM 12:00" show up and the hour digits flash. Press+/- to set the hours.

5. Then press **SET / ALM SET** once again, minute digits flash. Press +/- button to set the minutes.

6. Press **SET / ALM SET** to return to normal mode, or it will return to normal mode in around 10 seconds if no press of any other buttons.

TO SET ALARM TIME

1. Press **SET / ALM SET** once, time digits change to alarm time digits "AM 6:00 AL". Then press and hold **SET / ALM SET** for 2 seconds, the alarm hour digits flash. Press +/- to set the hours of your desired alarm time.

2. Then press **SET / ALM SET** once again, the alarm minute digits flash. Press +/- button to set the minutes of your desired alarm time.

3. Press **SET / ALM SET** to return to normal mode, or it will return to normal mode in around 10 seconds if no press of any other buttons.

TO TURN ON OR OFF YOUR ALARM

Press **SET / ALM SET** to display alarm time, then simply press **ALM On-Off** to turn on or off the daily alarm. When the alarm function is turned on, the "Bell" icon appears between the hour and minute digits. (insert BELL icon)

TO USE SNOOZE ALARM

When time reaches your set alarm time, your weather station will give beep sound to wake you up. The "Bell" icon will flash. (insert BELL icon)

1) Press **SNOOZE** / **LIGHT** once to stop the alarm temporarily, the "Bell" icon keeps flashing. The alarm will beep again in 5 minutes.

2) To stop the alarm, press **ALM On**/**Off** once, the alarm beep will stop and the "Bell" icon become static, alarm will beep again same time next day.

Alarm Duration : 2 minutes

TO DISPLAY TEMPERATURE IN DEGREE C OR F

Simply press **– (C**/**F)** to display temperature in degree C or degree F. When Fahrenheit is selected, the barometric air pressure readout displays in inHg.

TO DISPLAY TIME IN 12HR OR 24HR FORMAT

After you enter the set mode, simply press + / - to select in "12Hr" or "24Hr" format. When 12Hr time format is selected, **PM** indicator will be displayed.

WET / COMFORT / DRY ICON (insert DRY, WET, COM icon)

Your weather station clock will indicate the comfort level only under below temperature and relative humidity conditions :-

DRY	68F to 82F, below 40%
COM (comfort)	68F to 82F, 40% - 70%
WET	68F to 82F, over 70%

WEATHER FORECASTER ICON AND PRESSURE TREND INDICATOR

Your weather station has a built-in barometric sensor which measures the change of the air pressure over time. Your weather station takes around 24 hours to gather and average air- pressure readings to provide a weather forecast for next 12-24 hours.

WEATHER ICONS

There are four possible types of weather icons that will be displayed :- (insert 4 types of weather icons)

SUNNY
SUNNY AND CLOUDY
CLOUDY
RAINY

AIR PRESSURE TENDENCY INDICAOTRS

When the UP arrow appears, the air pressure is increasing, the weather is expected to improve.

When the DOWN arrow appears, the air pressure is decreasing, the weather is expected to become worse.

When the flat arrow appears, the air pressure change is stable.

AIR PRESSURE HISTROY BAR CHART

1. The bar chart indicates the air pressure history trend over the last 12 hours in 5 steps, 0h, -3h, -6h, -9h, and -12h.
2. The "0h" represents the current full hour air pressure recording
3. The columns represent the "inHg" at specific time.
4. If the bars are rising it means that the weather is getting better due to the increase of air pressure.

6. If the bars go down, it means the air pressure has dropped and the weather is expected to get worse from the present time “0h”.

Remarks : moving your weather from one floor of a building to another floor will affect the accuracy of your weather station, which should operate at the same altitude all the time. If you move it to a new location, it will take 12-24 hours to get stable and accurate again.

Our weather station provides next 12-24 hours weather forecast. It may not match with the current weather condition outside.

TO READ MAXIMUM-MINUMUM INDOOR-OUTDOOR TEMPERATURES

Simply press the **MAX-MIN** button to view the maximum indoor and outdoor temperatures and humidities with “**MAX**” icons appearing on the display . Press again to view the minimum indoor and outdoor temperatures and humidities with “**MIN**” icons appearing on the display.

When the maximums or minimums are displayed, press and hold the **MAX-MIN** button to reset both records to “---“ and it will start to record the maximums and minimums again.

IF YOU LOSE THE OUTDOOR TEMPERATURE AND HUMIDITY

When the outdoor temperature and humidity digits show '---", the wireless transmission is either interrupted or lost. Press the **OUT TEMP** button on the clock once. If you continue to lose the outdoor temperature display, try placing the transmitter in a different location until you have smooth transmission of temperature data.

TROUBLESHOOTING

In case your weather station clock shows irrelevant information or digits, it maybe affected by electrostatic discharge or interferences from other devices. Press the **RESET** button on the top right of your unit. Your unit will be reset to default settings and it will start to receive outdoor temperature and humidity and then WWVB signal again.

Problem	**Solution**
LCD is blank	1. Press RESET on the main unit 2. Check if AC/DC adaptor or DC jack is loose or unplugged
No Outdoor Temperature and Humidity is displayed	1. Press OUT TEMP on the weather station once 2. Press OUT TEMP once, then press RESET on the outdoor sensor 3. Observe if the Low Battery icon appears on the left of the outdoor temperature. If yes, replace batteries in outdoor sensor with fresh alkaline batteries 4. No other interfering sources are being used (such as computer monitors, TV sets, headphones, or speakers) in the path of signal from the outdoor sensor. The signal travels in a straight line, an electrical source near that “line” may cause interference
Temperature, humidity, or air pressure is incorrect	1. Press RESET on the main unit 2. Make sure your main unit and the outdoor sensor is away from sources of heat / cold / direct sunshine
WWVB time and date will not set or update	1. Wait until overnight for signal to be received 2. Move your weather station away from sources of electricity 3. Place your weather station in window facing Colorado
Time is one or few hours off	1. Make sure you select the right U.S. time zone 2. Make sure you select DST Off if you live in an area where Daylight Saving Time does not apply (part of Arizona and Indiana)

CARE OF YOUR WEATHER SATATION CLOCK

1. Do not expose the unit to extreme temperature, water or direct sunlight
2. Avoid contact with any corrosive materials
3. Do not subject the unit to excessive force, dust or humidity
4. Do not open the inner back case or tamper with any components of this unit
5. Do not plug in any other AC/DC adaptor with incorrect specifications or voltage

SPECIFICATIONS

Temperature Range

Indoor	+32F to +113F (0C to +50C) (display shows HH.H / LL.L if out of this range)
Outdoor	-4F to +158F (-20C to +70C) (display shows HH.H / LL.L if out of this range)

Humidity Range

Indoor	20% - 95%
Outdoor	20% - 95%

Temperature Resolution	0.2F / 0.1C
RH% Resolution	1%
Air Pressure Range	850 hPa to 1050 hPa 25.1 inHg to 31.01 inHg
Alarm Duration	2 minutes
Snooze Duration	5 minutes

FCC Statement

This device complies with Part 15 of the FCC Rules & RSS210. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCCID: TIUIW001WT

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.