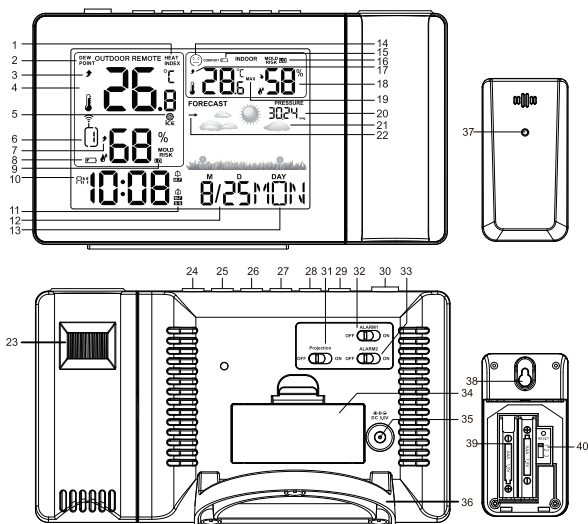# Dr.Prepare

PPROJECTION WEATHER CLOCK WITH FOCUS KNOB

`DPWS-OUT-005-US`

▶▶ Manual

Identifying Parts

1. Heat index temperature
2. Dew point temperature
3. Tendency arrow (outdoor temperature)
4. Outdoor temperature & humidity external sensor
5. Ice point icon
6. Channel external sensor and outdoor sensor signal strength
7. Tendency arrow (outdoor humidity)
8. Low battery indicator (sensor)
9. Outdoor mold index
10. Time
11. Alarm 1 and Alarm 2
12. Calendar
13. Weekday
14. Indoor comfort index
15. Low battery indicator (alarm clock)
16. Indoor mold index
17. Tendency arrow (indoor temperature)
18. Indoor temperature / humidity

19. MAX/MIN Indoor temperature and humidity records
20. Barometer display
21. Weather forecast
22. Tendency arrow (barometer)
23. Projection focus knob
24. ROTATE button
25. MAX/MIN button
26. ALARM button
27. SET button
28. -/C/F button
29. +/CH button
30. SNZ/LIGHT button
31. Projection ON/OFF switch
32. ALARM 1 ON/ OFF switch
33. ALARM 2 ON/OFF switch
34. Battery compartment of alarm clock (2 x AAA, not included)
35. Power supply socket
36. Pedestal
37. Wireless sensor signal indicator
   (Flashes when data is transferred to the alarm clock)
38. Mounting hole
39. Battery compartment of outdoor sensor (2 x AAA, not included)
40. TX channel selector (select channel number of the sensor)

Features

- 7 buttons: SNZ/LIGHT, +/CH, -/C/F, SET, ALARM, MAX/MIN, ⟳ (Rotate)

   3 switches: Projection ON/OFF, ALARM1 ON/OFF, ALARM2 ON/OFF
- Time (Hour & Minute)
- Calendar (Month & Date)
- 12H/24H Time format
- Alternative temperature units: ℃/℉
- Indoor temperature: 14.18℉- 122℉(-9.9℃- 50℃)
- Outdoor temperature: -40℉- 158℉(-40℃- 70℃)
- Indoor and outdoor humidity: 20% -95%
- Two projection modes: time & indoor temperature, time & outdoor temperature (The projection takes turns displaying indoor and outdoor temperature every 5s.)
- Rotation of projection: 180°

- Double alarms with snooze function
- Max./Min. temperature and humidity records
- Indoor and outdoor mold index
- Indoor comfort index
- Dew point and heat index

Function of Buttons

• SNZ/LIGHT

a. Press this button to turn on the backlight for 15 seconds (with the clock plugged in and when you set the backlight to MI/LO/OFF mode).

b. Press to activate the snooze function when your clock alarm goes off.

• +/CH

a. Press to increase the setting value during setting.

b. Press and hold the button for 3 seconds to speed up choosing numbers, for example, when setting current hour/minute.

c. Press this button to select the channel number on your alarm clock.

d. In normal mode, press and hold to search RF signals sent from the outdoor sensor.

• -/C/F

a. Press to decrease the setting value during setting.

b. Press and hold the button for 3 seconds to speed up choosing numbers, for example, when setting current hour/minute.

c. In normal mode, press -/C/F button to select temperature unit: ℃ or ℉.

• SET

a. Press this button to adjust the backlight: HI-MI-LO-OFF (with the clock plugged in).

b. Press and hold the button for 3 seconds to enter the time setting page.

• ALARM

a. Press this button to check the time setting of Alarm1 and Alarm2.

b. Press and hold this button to enter the alarm setting page.

• MAX/MIN

a. Press this button to check Max/Min temperature and humidity, dew point and heat index records.

b. When checking MAX/MIN records, press and hold this button for approx. 3 seconds to erase the records.

• ⟳

a. Press this button to rotate the projection for 180 degrees.

b. Press and hold this button to adjust the brightness levels of projection light: HI-LO.

• Default Settings

- The LCD display lights up with all the icons for 2 seconds and 3 beeps when plugged in. Then, the alarm clock begins to search for RF signals.

- Default Time: 12:00, 12-hour time format.

- Date: 01/01 2018, Monday.

- Alarm 1: 6:00 a.m. Alarm 2: 12:00 p.m.

- Weather forecast: partly sunny

- Default temperature unit: ℉

- Default projection: on

Note: Batteries are only used to save the setting of your clock. Please do not use batteries as main power supply (you will not be able to operate the alarm clock when it is only powered by batteries). Instead, please use the included power adapter.

Setting the Wireless Sensor

This weather clock is able to pair with three wireless sensors. One of these is included in the package while you can choose to purchase two more sensors separately if necessary.

Step 1. Plug in your alarm clock.

Step 2. Insert the batteries in the wireless sensor and use the TX channel selector to choose the desired transmission channel (1, 2 or 3). Automatic data will be transmitted.

Notes:

a. Please keep your weather clock away from concrete walls, cellars, metal doors and equipment that generates magnetic fields such as mobile phones, televisions, etc.

b. Since the cover of the sensor is designed to be splash-resistant, it may take 36-48 hours for the sensor to measure temperature readings that are relatively accurate.

c. Please ensure the wireless range between the alarm clock and the sensor is within 200 feet (60 m).

Step 3. Short press the +/CH button to select the channel number that has been set on the wireless sensor in the previous step. The icon of channel number flashes in sequence of 1, 2, and 3. If signal of the sensor is not received by your alarm clock, the symbol "-" will appear on the screen.

Receiving RF

• The alarm clock automatically receives RF signals for 3 minutes after the weather clock is plugged in.

• Press and hold the "+/CH" key for two seconds to re-register data from the current channel.

• Reception of RF signals

  a. RF reception lasts for up to 3 minutes.

  b. During RF registration, the antenna icon 📶 starts to flash.

  c. When the RF is successfully registered, the icon 📶 is displayed.

  d. If the reception fails once in the later synchronization, the icon 📶 will disappear.

  e. If the reception succeeds in the later synchronization, the icon 📶 will appear again and the outdoor temperature and humidity will be updated.

  f. If the alarm clock fails to receive RF signals more than 1 hour, it will display the latest temperature and humidity before the update.

Time Setting Mode

- Press and hold down the "SET" button for 3 seconds and the **Language** icon starts to flash. Use "+/CH" and "-/C/F" buttons to choose a desired language. The language options come as followed: ENG, ITA, FRE, DUT, SPA, DAN, GER. The default language is ENG.

- Press " SET " button to confirm your setting, and the **12/24 Hour Mode** icon starts to flash. Use "+/CH" and "-/C/F" buttons to choose 12-hour / 24-hour time format.

- Press " SET " button to confirm your setting and the **Hour** icon starts to flash. Use "+/CH" and "-/C/F" buttons to set the correct hour.

- Press " SET " button to confirm your setting and the **Minute** icon starts to flash. Use "+/CH" and "-/C/F" buttons to set the correct minute.

- Press " SET " button to confirm your setting and the **Year** icon starts to flash. Use "+/CH" and "-/C/F" buttons to set the correct year.

- Press " SET " button to confirm your setting and the **Month** icon starts to flash. Use "+/CH" and "-/C/F" buttons to set the correct month.

- Press " SET " button to confirm your setting and the **Date** icon starts to flash, use "+/CH" and "-/C/F" buttons to set the correct date.

- Press " SET " button to confirm your setting, then the **Month and Date** icon starts to flash. Use "+/CH" and "-/C/F" buttons to set the date format, Month/Date or Date/Month.

- Press " SET " button to confirm your setting and the **Weather Forecast** icon starts to flash. Use "+/CH" and "-/C/F" buttons to switch the weather forecast icon.

- Press "SET" (or you can wait for 30 seconds without further operation) to save the setting and get out of the time setting mode.

- You can press SNZ/LIGHT button to get out of the setting mode as well to be back in the standard mode.

Alarm Setting Mode

- In standard mode, press "ALARM" to enter alarm mode. The "AL1" icon will appear on the screen.

- In alarm mode, press and hold ALARM button for 2s until the **Hour** icon of Alarm 1 starts to flash. Use the "+/CH" and "/C/F" buttons to set the desired hour.

- Press "ALARM" button to confirm your setting and the **Minute** icon of Alarm 1 starts to flash. Use "+/CH" and "-/C/F" buttons to set the desired minute.

- Press "ALARM" button to confirm your setting and the **Repeat** icon starts to flash. Use "+/CH" and "-/C/F" buttons to set the repeat mode of Alarm 1: M-F (Monday to Firday) or S-S (Saturday to Sunday) or M-F and S-S (Monday to Sunday).

- Press "ALARM" button to confirm your setting and the **Snooze Time** (5 min-60 min) starts to flash. Use "+/CH" and "-/C/F" buttons to set the desired snooze time for Alarm 1.

- Press "ALARM" button to confirm your setting and the **Hour** icon of Alarm 2 starts to flash. Use the "+/CH" and "-/C/F" buttons to set the desired hour.

- Press "ALARM" button to confirm your setting and the **Minute** icon of Alarm 2 starts to flash. Use "+/CH" and "-/C/F" buttons to set the desired minute.

- Press "ALARM" button to confirm your setting and the **Repeat** icon starts to flash. Use "+/CH" and "-/C/F" buttons to set the repeat mode of Alarm 2: M-F or S-S or M-F and S-S.

- Press "ALARM" button to confirm your setting, the **Snooze Time** (5 min-60 min) icon starts to flash. Use "+/CH" and "-/C/F" buttons to set the desired snooze time for Alarm 2.

- Press "ALARM" (or you can wait for 30s without further operation) to save the setting and get out of the alarm setting mode.

- You can press SNZ/LIGHT button to exit the setting mode as well to be back inthe time display mode.

- When the ALARM1 switch is turned ON, the ALARM 1 is activated and the icon " 🔔 " will appear on the screen.

- When the ALARM1 switch is turned OFF, the ALARM 1 is deactivated and the icon "🔔" will disappear. The operation applies to the ALARM 2 switch as well.

Alarm and Snooze

- While the alarm is beeping, the alarm icon will flash on the screen as well. It will stop automatically after 2 minutes.

- While the alarm is beeping, press the "SNZ/LIGHT" to enter the snooze mode. The alarm will keep again after the snooze timer expires.

- You can press any button other than the SNZ/LIGHT button to turn off the alarm.

- Alarm will go off in the way shown as below.

  0-10s: 1 beep/second
  11-20s: 2 beeps/second
  21-30s: 3 beeps/second
  After 30s, the alarm will keep beeping for 4 times until you stop the alarm.

Indoor Temperature and Humidity

- The indoor temperature range is from 14.18℉ to 122℉ (-9.9℃ to 50 ℃).

- The indoor humidity range is from 20% to 95%.

- If the current temperature exceeds the maximum measurement range of the weather clock, HH.H will appear on the screen. If the current temperature is lower than the minimum measurement range of the weather clock, LL.L will appear on the screen.

- If the current humidity exceeds the maximum measurement range of the weather station, it will display 96% on the screen. Likewise, if the current humidity is lower than the minimum measurement range, the weather station will display 19% on its screen.

- The weather clock will automatically update indoor temperature and humidity every 60 seconds.

- When the ALARM goes off or the weather clock is receiving RF signals sent from the outdoor sensor, the weather station will stop updating temperature or humidity.

Outdoor Temperature and Humidity

- The outdoor temperature range is from -40℉ to158 ℉ (-40 ℃ to 70 ℃).

- The outdoor humidity range is from 1% to 99%.

- If the current temperature exceeds the maximum measurement range of the weather clock, HH.H will appear on the screen. If the current temperature is lower than the minimum measurement range of the weather clock, LL.L will appear on the screen.

- If the current humidity exceeds the maximum measurement range of the weather clock, it will display 99% on the screen. Likewise, if the current humidity is lower than the minimum measurement range, the weather clock will display 1% on its screen.

- The frequency of data updates for each channel are as followed: every 68s for channel 1, 72s for channel 2, and 76s for channel 3.

- When the current outdoor temperature is within 30.2 ℉ to 37.3℉ (-1.0 ℃ to 2.9 ℃), the ice icon ❄ICE starts to flash. It will disappear until the outdoor temperature is out of the temperature range.

- There are 3 levels for Mold Index: HI, ME and LO. When the weather clock displays LO or ME, the Mold Index icon will be displayed all the time. When the weather clock displays HI, the Mold Index icon will flash.

Tolerance

- Temperature tolerance:

  -22 ℉ ~ -4 ℉: ±7.2 ℉ (-30 ℃ ~ -20 ℃: ± 4 ℃)
  -4 ℉ ~ -32 ℉: ±3.6 ℉ (-20 ℃ ~ 0 ℃: ± 2 ℃)
  32 ℉ ~ 122 ℉: ±1.8 ℉ (0 ℃ ~ +50 ℃: ±1 ℃)

- Humidity tolerance: ±5% from 35% to 75%, ±10% from 20% to 35% & 75% to 95%.

Note: The above tolerance range is only for reference.

Weather Forecast

- The clock predicts weather condition of the next 12-24 hours, based on the change of atmospheric pressure.

- If you want to switch the weather forecast icon, press and hold the SET button to enter the setting menu. Press SET button eight times and the weather forecast icon starts to flash. Use "+/CH" and "-/C/F" buttons to set the weather forecast icon according to the current weather conditions.

Note: Please allow the alarm clock at least 24 hours to collect data and provide a more accurate forecast as a result. If there are discrepancies between the results from your alarm clock and that of the local weather forecast service, please follow the advice from the latter one.

Backlight

- When plugged in using the included adapter, the backlight will always be on.

- Press the SET button to adjust the brightness from High >> Medium >> Low >> OFF.

- When the weather clock is powered by battery only, the backlight will be off.

Note:

a. Batteries are only used to save the setting of your clock. Please do not use batteries as main power supply (you will not be able to operate the alarm clock when it is only powered by batteries). Instead, please use the included power adapter.

b. When the backlight is in MI/LO/OFF mode, press the SNZ/LIGHT button to turn on the backlight for 15s.

Projection function

- In standard mode, press "⟳" button to flip projection for 180 degrees.

- When the weather clock is plugged in, the projection will stay on. If you want to change from long-term projection to short-term projection, switch off the projection and short press SNZ/LIGHT button. Then, the projection will only light up for 15s.

- Two projection mode: time and indoor temperature, time and outdoor temperature. The alarm clock will take turns displaying indoor and outdoor temperature every 5s.

- Press and hold " ⟳ " button to adjust the brightness levels of projection light: HI-LO

- Rotate the focus knob to adjust the projection for optimal clarity.

Comfort Display

Temperature range	Humidity range	Comfort icon
/	H<40%	😐 (Dry)
68℉ <=T<82.4℉ 20℃<=T<28℃	40%<=H<70%	🙂 (Comfort)
T<68℉ or T>=82.4℉ T<20℃ or T>=28℃	40%<=H<70%	No display
/	H>=70%	😣 (Wet)

Indoor and Outdoor Mold Display

Temperature range	Humidity range	Mold risk
T<49℉ (T<9.5℃)	H<=48%	0
	49%<=H<=78%	0
	79%<=H<=87%	0
	H>=88%	0
49℉ <=T<=79.9℉ (9.5℃ <=T<26.5℃)	H<=48%	0
	49%<=H<=78%	LOW
	79%<=H<=87%	MED
	H>=88%	MED
80℉<=T<=86.9℉ (26.5℃<=T<30.5℃)	H<=48%	LOW
	49%<=H<=78%	LOW
	79%<=H<=87%	MED
	H>=88%	HI
87℉ <=T<=104℉ (30.5℃ <=T<=40.5℃)	H<=48%	LOW
	49%<=H<=78%	MED
	79%<=H<=87%	MED
	H>=88%	HI
T>=104.1℉ (T>40.5℃)	H<=48%	0
	49%<=H<=78%	0
	79%<=H<=87%	0
	H>=88%	0