

Logic requirements for human-presence temperature control intelligent fan controller

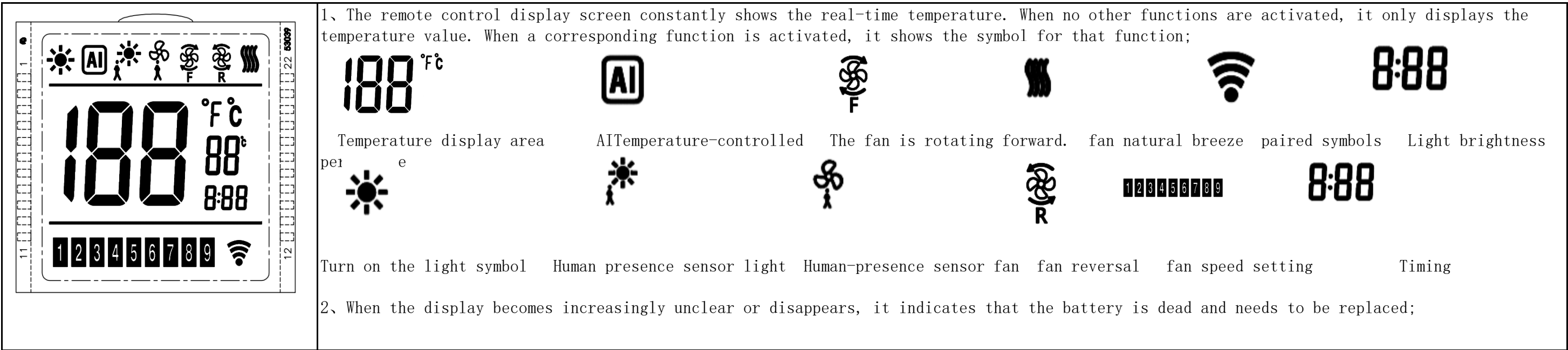


	Fan and light on/off together
	Fan on and switch between 1-9 speed settings and natural breeze mode
	Fan forward and reverse selection
	AI Thermostatic fan automatic speed adjustment mode
	Radar personnel presence switch, fan and light selection
	One-click night light mode, with adjustable color temperature
	Timing button, 0.5-8 hours
	matching key
	light switch
	Adjust brightness
	Adjust brightness down
	Color temperature reduction
	Adjust color temperature

Briefly describe

This product is a smart brushless fan light control with human presence detection and temperature control, featuring a liquid crystal display and a 13-button 2.4GHZ remote control that can display the current ambient temperature. The fan has 9 settings and is equipped with a 24GHz radar sensor module to detect human presence and control the on/off of the fan and lights. The lighting system offers quick 3-level color temperature adjustment and infinitely adjustable color temperature, while the brightness has quick 10-level adjustment and infinitely adjustable brightness, along with a one-button night light function. The fan can automatically adjust its operating speed based on the current ambient temperature. The display allows for free switching between temperature units of Fahrenheit and Celsius, forward and reverse rotation functions, and a timer function. The remote control has an ultra-low standby power consumption of 13uA;

The battery display on the remote control fully illuminates for 3 seconds, followed by the display of the current ambient temperature. Afterwards, operate the buttons to activate the corresponding desired function. Once the light body is powered on, the buzzer sounds once, the light is turned on, and the wall switch can be used to switch the color temperature level of the light. The fan does not turn on when powered on; instead, you need to press the remote control to activate the corresponding desired function;



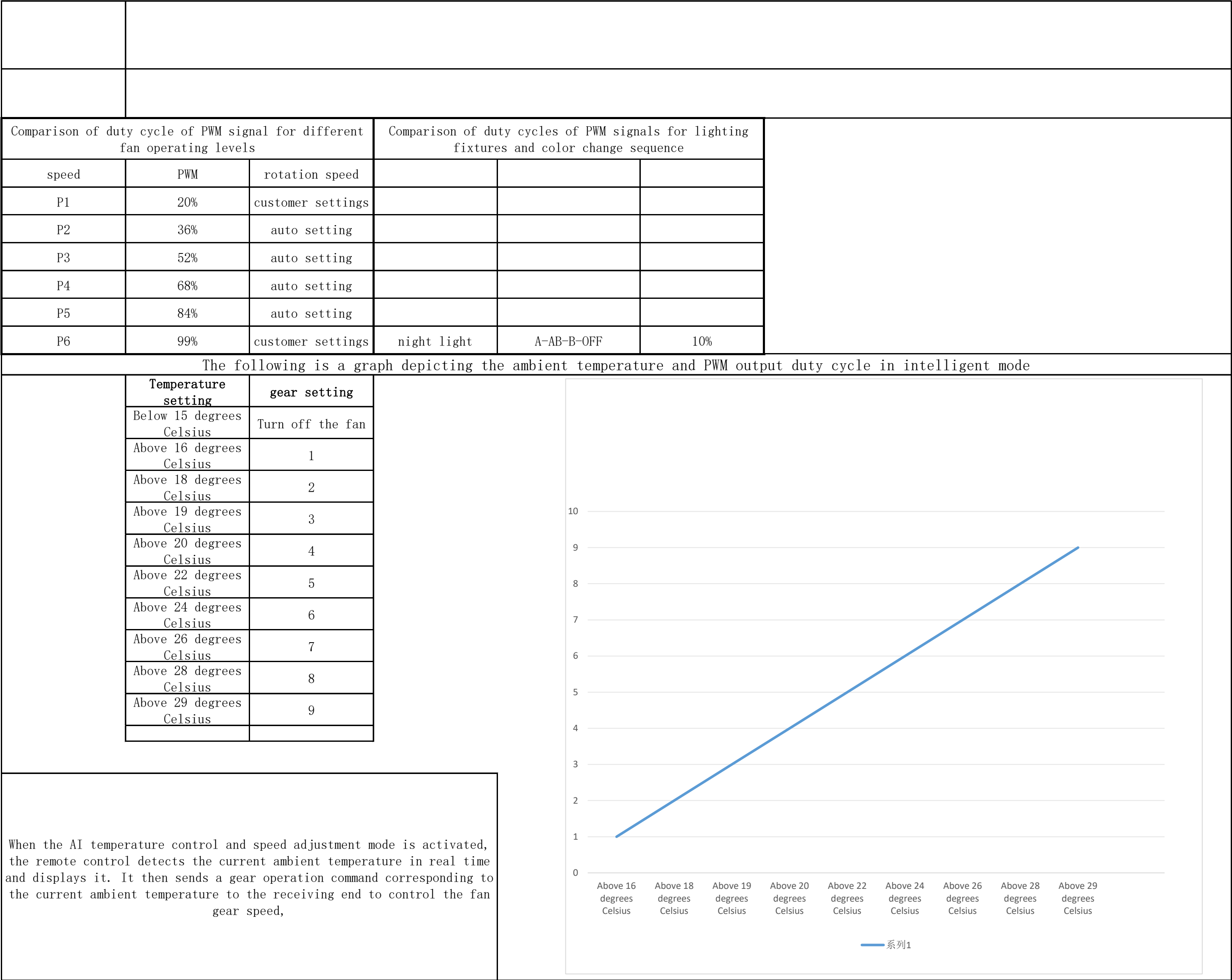
The diagram illustrates the layout of the remote control's LCD screen. At the top, a row of icons includes a sun, 'AI', a fan, a person, a fan with a person, a fan with a person and a fan, and a fan with a person and a fan. Below this is a large digital display showing '18.8' with '°F' and '°C' units, and a smaller display showing '88' with '°C' and '8:88' time. At the bottom is a row of numbers '1' through '9' and a fan icon. To the right of the screen, a list of functions is provided: 'Temperature display area', 'AI Temperature-controlled', 'The fan is rotating forward', 'fan natural breeze', 'paired symbols', 'Light brightness', 'Turn on the light symbol', 'Human presence sensor light', 'Human-presence sensor fan', 'fan reversal', 'fan speed setting', and 'Timing'.

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Other feedback methods	Every time a button is pressed, the buzzer will give feedback, except in the following situations when a driver without a buzzer is used.			
button symbol	remote control button	Operational logic requirements	buzzer prompt	remark
	matching key	Long press this button for 3 seconds. At this time, the pairing symbol on the remote control will flash for 5 seconds. During the 5-second flashing period, power on the fan on the receiving end. After powering on, it will automatically pair and the buzzer will sound 3 times, indicating successful pairing. If you use another remote control for pairing again, the pairing code value of the first remote control will be automatically cleared	The buzzer sounds 3 times and the light flashes 2 times	
	Fan and light on/off together	Press the master switch to turn on both the fan and the lights, and press it again to turn them off	The buzzer sounds once	
	Fan on and switch between 1-9 speed settings and natural breeze mode	Short press to turn on the fan, long press for 1 second to turn off the fan. After turning on, short press to select a fixed speed gear. Each short press switches gears, with options ranging from 1-9, plus natural wind and circulation	The buzzer sounds once	
	Fan forward and reverse selection	Short press to select fan mode in forward or reverse rotation;	The buzzer sounds once	
	AI Thermostatic fan automatic speed adjustment mode	Press to activate the intelligent temperature control and speed adjustment function, which automatically adjusts the speed according to the ambient temperature: Stop when the wind speed is below 15 degrees 16-18 degrees - Wind speed level 1 18-19 degrees ---- wind speed level 2 19-20 degrees ---- wind speed level 3 20-22 degrees ---- wind speed level 4 22-23 degrees - wind speed level 5 23-24 degrees - wind speed level 6 24-26 degrees - wind speed level 7 26-28 degrees - wind speed at level 8 "Greater than 29 degrees - Wind speed at level 9" The temperature is detected by the remote control, which sends control commands to the receiving end to control the fan;	The buzzer sounds once	

	Radar personnel presence switch, fan and light selection	Short press to select sensing mode: sensing fan - sensing light - sensing fan and light - off mode 1. The fan function is detected to be automatically activated by someone, and it will automatically shut down 1 minute after the person leaves; 2. It is detected that someone automatically turns on the lights, and they will automatically turn off 1 minute after the person leaves; ; 3. It has been detected that someone has automatically turned on the fan and lights, which will automatically turn off 1 minute after the person leaves; ;	The buzzer sounds once	
	One-click night light mode, with adjustable color temperature	After pressing, it automatically adjusts the light to the dimmest level of 10%. Short press to switch color temperature, warm light - neutral light - white light - off - cycle	The buzzer sounds once	
	Timing button, 0.5-8 hours	Press to enter timing settings, each press increments by 0.5 hours, with a cycle of 0-8 hours to choose from; long press to continuously toggle the value; after selection, the timing time flashes three times to automatically confirm the start of timing;	The buzzer sounds once	
	light switch	Press once to turn on the light, press again to turn off the light;	The buzzer sounds once	
	Adjust brightness down	Short press to adjust brightness in 10 stages, long press to infinitely dim to the brightest;10%-20%-30%-40%-50%-60%-70%-80%-90%-100%	The buzzer sounds once	
	Adjust brightness down	Short press to adjust brightness in 10 stages, long press to infinitely dim to the darkest level; 100%-90%-80%-70%-60%-50%-40%-30%-20%-10%	The buzzer sounds once	
	Color temperature reduction	Short press to adjust color temperature in 10 stages, long press to infinitely adjust to warm light;	The buzzer sounds once	
	Adjust color temperature	Short press to adjust color temperature in 10 stages, long press to infinitely dim to white light;	The buzzer sounds once	
Other unfulfilled logical display requirements				
	When the human presence priority is higher than the A temperature sensing function and the unmanned fan is automatically turned off due to the influence of the human presence radar, the AI temperature control takes precedence over other logic, such as the overall shutdown and fan shutdown. When the AI is turned on, the fan cannot be turned off			



FCC Warning:

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. 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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.