

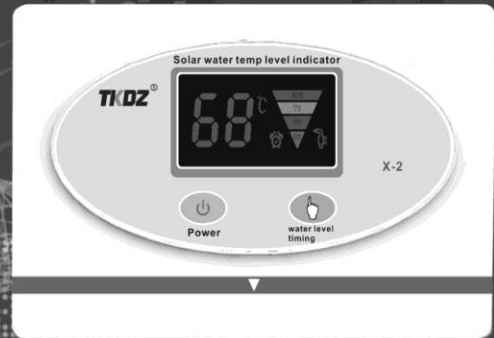
**X-2 display warranty certificate**

User's name	<input type="text"/>	user's tel	<input type="text"/>
user's add	<input type="text"/>	purchase date	<input type="text"/>
product model	<input type="text"/>		
date of production	<input type="text"/>		
ex-works NO.	<input type="text"/>		

**X-2**

— installation and operating manual —

**Solar water heater's controller**



- Major fuction
- Open checking
- water-level display
- water full indication
- timing indication
- water temperature display
- water level pre-set
- water shortage indication
- power save model

Dear Customer:

Thank you for choosing X-2 series of solar controller, it is a newest digital technical solar controller for industrial using. Characteristic: it has water temperature, water-level display, water-level display, water level pre-set, water shortage indication, timing indication. Temperature sensor adopt anode-cathode changing pulse, it prevents scale, the product is stable, convenience, safe and utility.

**Technical data**

1. Temperature range: 0-99°C
2. Temperature precision: ± 2°C
3. water-level: five step
4. voltage: 220VAC power: <1.5W



size: 17x11.5x3cm

**major functions**

1. Open checking: It is OK, you heard click when you open the solar controller.
2. water-temperature display: It displays the actually temperature in the water tank.
3. Water-level display: It displays actually level in the water tank
4. water-level pre-set: you can set 50%, 75% or 100%. It will has alam when the water is full.
5. Alarm: It will be click all the time when the water is full.
6. Timing indication: You can set when you want to fill the water tank at daytime, and then at this time of day, the alarm will be click to insure you fill the water to the water tank. And you can't forget to put the water into the water tank, it avoids energy missing.
7. power save model: It will be less ≤ 0.1W.

**Operation**

1. Open: The scree will be click, when open checking makes sure the controller is OK.
2. Press the water load button, you can pre-set the water-level 50% 75% 100.
3. Keep water load button three seconds, it will be click when you finished the setting. And then at the time of everyday, the controller will be click, that means you should open the tap to let the cold water into water tank. At the same time Timing button will be light, if you cancel the timing function, you should press water load button until click, and the timing button is dark.
4. It will let the water into the tank when you open the checking valve, The alarm will be click when the water is full in the water tank, you can close the tap. And let the button be dark.
5. The alarm will be click when there is no water in the water tank. It will be ten time, you can let the button light.

6. It is click, you can put the water load button to close the alarm.
7. You can press the power button when you want to save. One more time the function is cancelled.

**Notice**

1. Prevents the display from water.
2. You can install the solar controller after you install the solar water heater correctly.
3. To protect the solar water heater and sensor, there must be water in the water tank always.
4. The solar water heater will be installed which there is no leakage on the roof, to prevent operation mistake and power mistake, the water will be out when it has these problem, so keep away from the leak area. Pay attention to thunder, keep safe.
5. You can change the connect way to high sensitive wire after long time using. Because the sensor will have problem, the water quality is bad, it will damage the sensor.

**Warranty**

Phenomena in common breakdowns	causes	measure
No self-test on start-up: Nothing show while starting	Voltage insufficiency or bad contact	Tear off the plug to examine the Voltage and then turn on the electricity once.
Indication lamps glint at the same time when showing —C, 25% water level and 100% water-level	The plug has bad contact or insert opposite or the wires are broken or suffer thunder.	Green code opposite each other and insert again tightly or make a maintenance or change a new one
Alam don't work	Alarm is bad	Repair or change a new one

**Installation instruction**

1. Installation of sensor  
You should tight the wire to venting pip in the water tank. Then put the sensor into the venting pipe, make sure it's OK. And then put the wire into venting 1 cm, and then fastened the wire, and then let the wire to the washing room, don't let the plug wet during installation, and also keep tender to prevent the wire broke. Notice: the sensor should away from the electric heater.
2. Display screen installation.  
You should put the display screen at a right place to operate. And make sure the sensor's plug is face to face the display's plug green color. Make them tightly, put them in the groove and fastened. (attention: Prevent the screen away from water). Put the screen on the bracket, make sure the wire comes out from the bottom of the screen, then close the box. Making it self-checking after all the things were right, after install.