

## Solar Electronics – SC868 Differential Thermal Controller



### Features:

- Suitable for 1 store and 1 collector
- Remote LCD display with backlight
- Timer based heating element control
- Timer based ring-main control
- Power failure memory protection
- Collector frost protection
- Manual override

### Specifications

Dimensions of Display (mm)	120 x 120 x 18
Power consumption:	<5W
Accuracy	2°C
Temperature range	0 - 99°C
Controlled power of circulation pump	<600W

PO Box 47, 6 Harbour Road, KLEINMOND 7195  
Western Cape, Republic of South Africa

**SolarMAX**<sup>®</sup>  
*Investing in our children's future*

Tel. +27 (0) 28 271 5172  
Fax. +27 (0) 866 570 375  
E-mail: [info@solarmax.co.za](mailto:info@solarmax.co.za)  
Internet: [www.solarmax.co.za](http://www.solarmax.co.za)

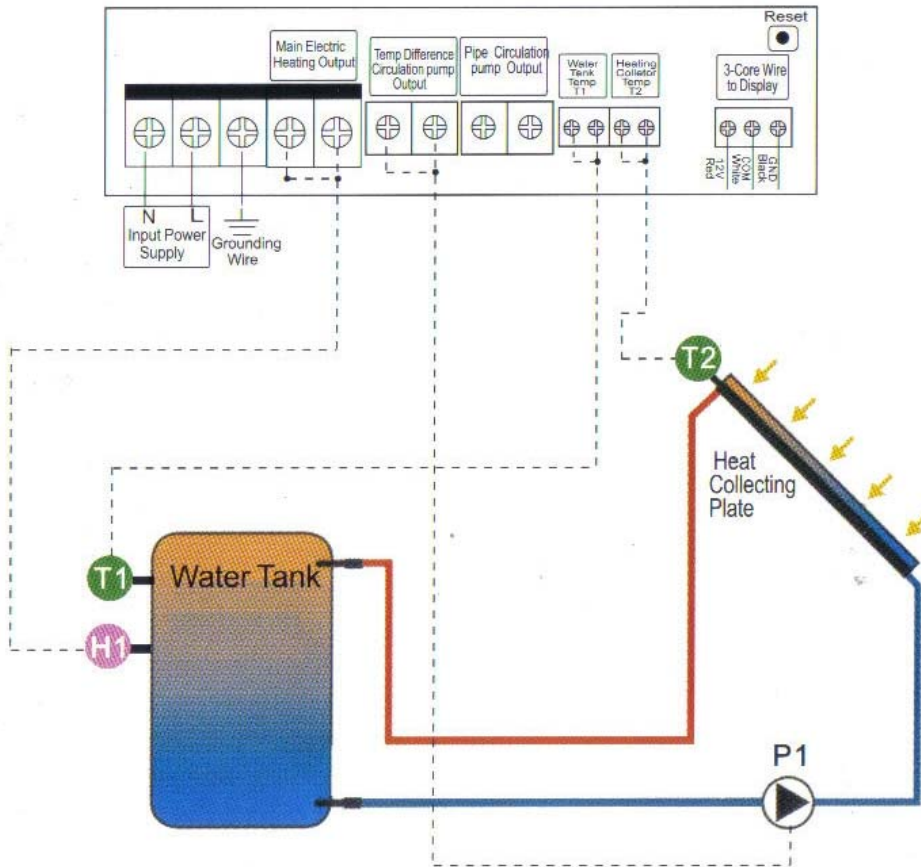
Power of electric heating:

≤2000W

### 【Systematic Drawing of Installation】

1. Reliably connect all wires as per the connection drawing below

※Note: This controller can be used for the plan to control the system with two temperature sensors and the connection wires can refer to the following drawing



※ 1. The power of electric heater is less than 2000W. Externally connect AC contactor if it is larger than 2000W.

2. The output power of the circulation pump 1, the circulation pump 2 and the timer are less than 600W. Externally connect AC contactor if they are larger than 600W

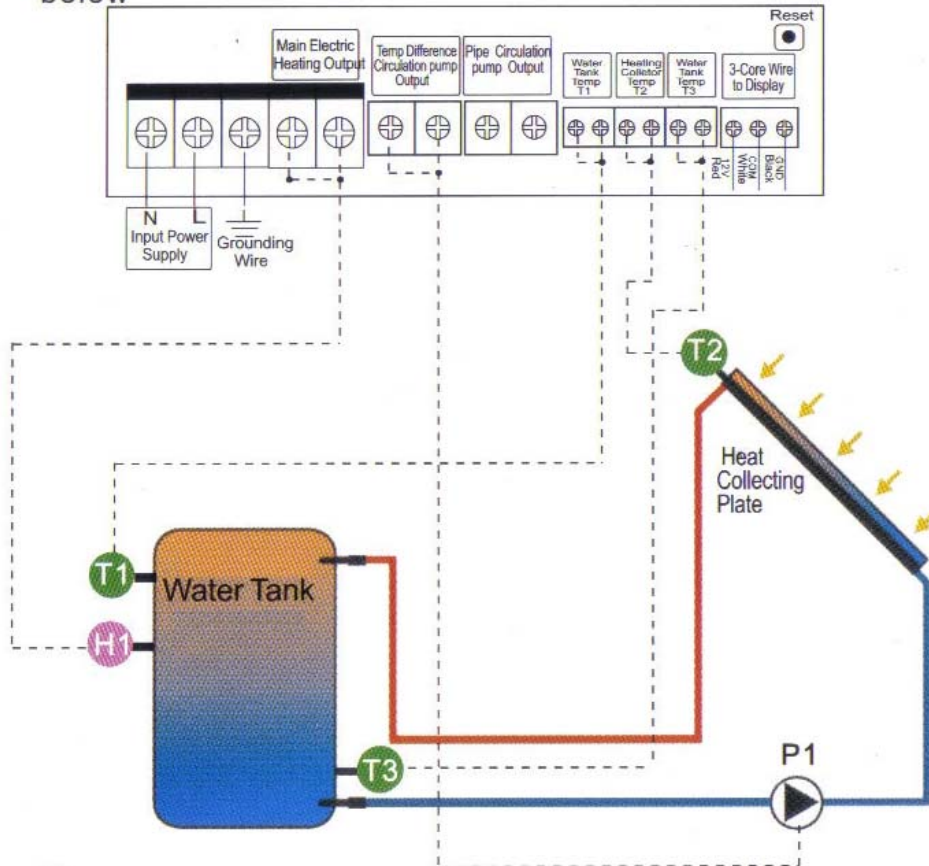
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## 【Systematic Drawing of Installation】

1. Reliably connect all wires as per the connection drawing below



※

1. T1: Temperature sensor of the water tank (B=3950, 10K)
2. T2: Temperature sensor of the heat collector selectable  
 Pt1000  10K B=3950
3. T3: Circulation temperature sensor of the water tank (B=3950, 10K)
4. P1: Circulation pump, for temperature difference circulation
5. H1: Electric heater
6. The transmission line of the sensor can be extended to 100 m and when extending to 100 m and 50 m, please select 1.5 mm<sup>2</sup> and 0.75 mm<sup>2</sup> wires respectively.

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