

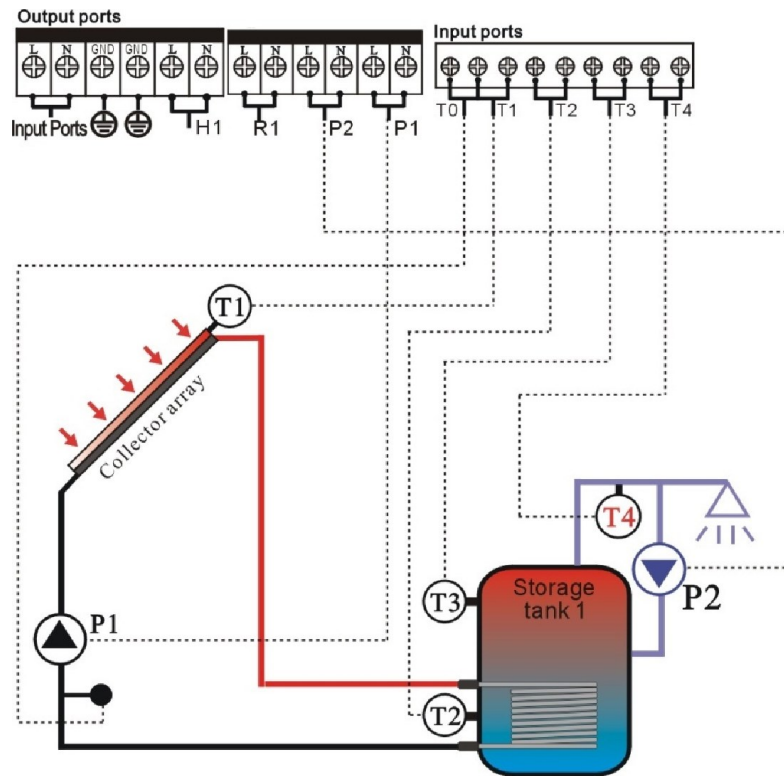
8011 – INTELLIGENT CONTROLLER FOR SOLAR THERMAL SYSTEMS.

**FUNCTION:**

Our 8011 series is an intelligent controller with the typical set-up for a collector-storage. The circulation pump must operate only when the collector can supply a useful gain of energy to the storage tank. This controller is complete and the parameter programming can be done by the installer directly following faithfully the indications.

MAIN FUNCTIONS:

1. SYSTEM	One system
2. DT O & DT F	Temperature difference controlling the solar circuit pump
3. THET	Timing heating
4. EM	Emergency collector temperature (emergency switch-off temperature of collector)
5. CMX	Maximum limited collector temperature (collector cooling function)
6. CMN	Low temperature protection of collector
7. CFR	Frost protection of collector
8. SMX	Maximum temperature of tank
9. REC	Tank re-cooling function
10. C-F	Celsius and Fahrenheit temperature transferring
11. DVWG	Anti-legionella function
12. CIRC	Temperature controlled hot water circulation pump
13. nMIN	Solar circulation pump speed adjusting (RPM speed controlling)
14. OHQM	Thermal energy measuring
15. INTV	Pump interval function
16. BYPR	High temperature by-pass function (Tank temperature automatically adjusting)
17. Holiday	Holiday function
18. HND	Manual mode
19. PASS	Password setting
20. LOAD	Recovery to factory setting
21.	Manual Heating
22.	Temperature query function
23.	Memory Protection
24.	Anti-dry heating protection
25.	Screen protection
26.	Trouble protection

TECHNICAL SPECIFICATIONS:

1. Appearance of the controller: 200mm x 140mm x 43mm
2. Power supply: AC230V±10%
3. Power consumption: < 3W
4. Accuracy of temperature measuring: ± 2°C
5. Range of collector temperature measuring: -10 ~ 220°C
6. Range of tank temperature measuring: 0 - 110°C
7. Max. suitable power of pumps: ≤600W each pump (3)
8. Max. suitable power of electrical heater: ≤1.500W (1)
9. Inputs: 2 x Pt1000 sensor (≤500°C) for collector (silicon cable ≤280°C), 3 x NTC10K, B3950 sensor (≤135°C) for tank (PVC cable ≤105°C)
10. Outputs: 3 relays, for circulation pumps or 3-way electromagnetic valve 1 relay for electrical heater
11. Ambient temperature: -10 ~ 50°C
12. Waterproof grade: IP40

EXAMPLE OF INSTALLATION:

