

# Solar Heating Controller

*Providing system integration and demand based environment*

Solar water heating systems collect the energy radiated by the sun and convert the collected energy into a useful heat in the form of hot water.

The SeaChange Solar heating controller has been designed to provide automatic control of a solar water heating system. The controller is provided with predefined control strategies to cater for heating and domestic hot water applications.

The controller is self learning, self tuning and can be used in conjunction with a heating plant, an immersion heater or a gas fired calorifier on schemes where other form of supplementary heating is provided. An automatic change-over facility is provided to ensure the required temperature is met during the occupancy period. The built in proven demand driven control strategies ensure maximum performance and energy saving throughout the day.

On applications where twin-head pumps are utilised, these can be controlled via SeaChange pump change-over sub modules to provide the automatic change-over and duty rotation. Other features will include a weekly pump exercising routine, inbuilt digital hours run timers, local and remote alarm indication.



## Main Features

- Modular design
- Predefined proven strategies
- Works in conjunction with SeaChange Control modules to provide a demand based system
- Additional control options for providing supplementary heating via a LPHW heating valve or immersion heater
- Remote monitoring via modem or web
- Self tuning control loop
- Extended control functionality via additional sub modules
- Plug and play technology



SC Controls Ltd  
Phone 08707 606040  
Fax 08707 606041  
email [sales@sccontrols.co.uk](mailto:sales@sccontrols.co.uk)  
Web [www.seachange.co.uk](http://www.seachange.co.uk)

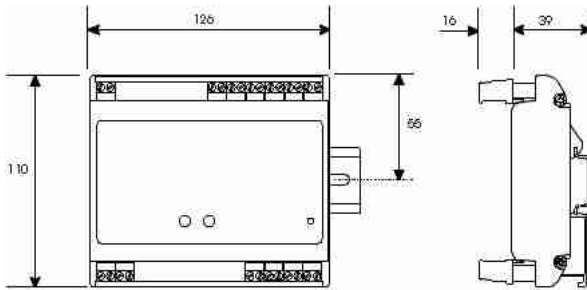
*SeaChange*<sup>®</sup>

*...take the smart step to energy efficiency*

# Solar Heating Controller

## Specification

### Dimensions



 Conformant Product

### Electrical

**Inputs** 4 Thermistor sensors  
2 Volt-Free Contacts

**Outputs** 6 Relay Outputs N/O contacts  
3 A 250 V resistive Load

**Consumption** 13mA from network  
50mA from 24V AC aux supply  
(or System PSU)

### Physical

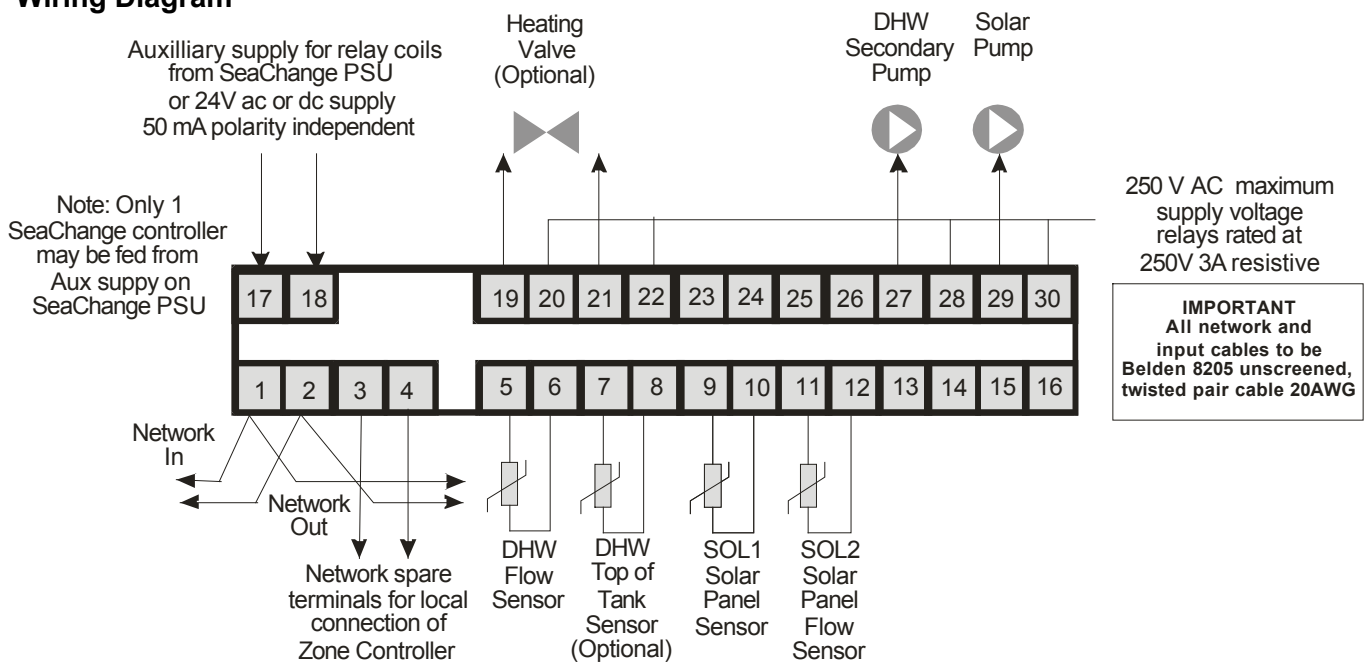
**Weight** 0.25 KG

**Cover Material** PC/ABS alloy Self extinguishing to UL 94 V0/1.60

**Base Material** Polyamide 6.6 Self extinguishing to UL 94 VO

**Colour** Dark Grey to Pantone 425

### Wiring Diagram



### Product Code

SOL/DIN/6R/101 Solar heating controller with immersion heater  
SOL/DIN/6R 105 Solar heating controller with heating valve



SC Controls Ltd  
Phone 08707 606040  
Fax 08707 606041  
email sales@sccontrols.co.uk  
Web www.seachange.co.uk

*SeaChange* range of heating, ventilation and zone controllers are included on the Carbon Trust Energy Technology List (ETL)