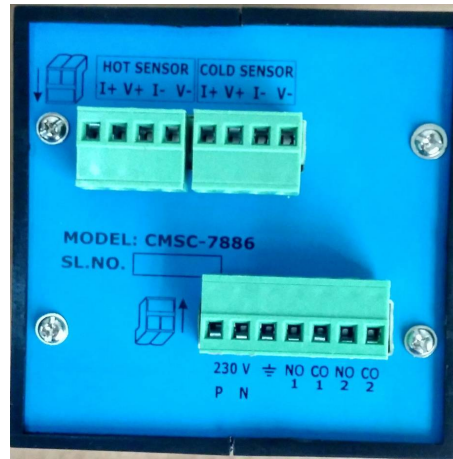




FRONT PANEL



REAR PANEL

Differential Controller – CMSC-7886, is Microcontroller based equipment used for solar water heating system. This unit is similar to our CMSC-7752, EXCEPTING THAT THIS UNIT HAS TWO RELAYS, instead of one in our CMSC-7752.

The user can choose Relay-1 or Relay2 or can be set to be in cyclic mode in which Relay 1 & Relay2 can operate in a cyclic manner to ensure that the stand by motor is also routinely checked.

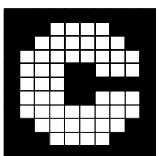
The cycling from one relay to another relay can be set to operate on number of time each relay is programmed to operate after which the next relay will work for that specified number of ON-OFF operation.

The number of times the relay to operate from relay 1 to relay 2 can be set from one to two hundred.

In this equipment there are two sensing inputs one for cold water and another for hot water. Both are PT-100, 4-wire (RTD) sensors. The operating range is up to 100 deg C. The differential temperature (2 to 50 deg C) and hysteresis (1 to 10 deg C) are programmable parameters.

The relay goes OFF when the differential temperature is less than or equal to the difference between (Differential set value and Hysteresis set value.) The relay goes ON when the differential temperature is equal to two or more than the differential set value.

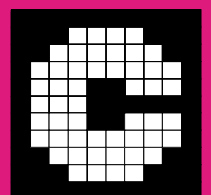
The Over Temperature Limit of the HOT Sensor is programmable up to 160 °C. In case the HOT Sensor reaches a temperature value higher than the "Over Temperature limit value" the relay goes OFF irrespective of COLD sensor Temperature.



CENTURY METERING SYSTEMS & CONTROLS

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Website: www.centurymetering.com



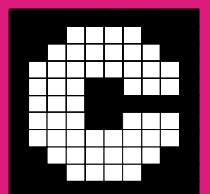
CMSC-7886

DIFFERENTIAL CONTROLLER

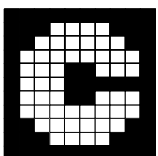
SPECIFICATIONS

§ SENSOR INPUT	: Two 4 wire RTD sensors.
§ TEMPERATURE RANGE	: 0 to 160 deg C
§ RESOLUTION	: 1 deg C
§ ACCURACY	: +/- 1 deg C
§ DISPLAY	: 2 digits for HOT Sensor 2 digits for COLD Sensor
§ PROGRAMABLE PARAMETERS	: *Differential Temperature—DF—2 °C to 50 °C * Hysterisis -HY—1 °C to 10 °C * Over Temperature -OV- 70°C to 160 °C * Relay operation No. of cycles - 200
§ ANNOUNCIATING LED's	: * 1 LED to indicate Fuse Fail
§ PROGRAMMING KEYS	: Four Keys(Increment, Decrement, Enter, Scroll)
§ NUMBER OF RELAYS	: TWO, ONE for main, the other for stand by
§ RELAY RATING	: Single change over relay with 7A CURRENT
§ REAR PANEL TERMINATIONS	: All terminations are on Phoenix type Plug in connectors as seen in drawing.
§ DIMENSION	: 96 X 96 X 110 mm
§ TYPE OF MOUNTING	: PANEL Mounting [Cutout 92 X 92mm]
§ INPUT POWER	: 230 V +/- 15 % 5VA

DIFFERENTIAL CONTROLLER



CMSC-7886



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