CENTURY METERING SYSTEMS & CONTROLS

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CMSC 7886 – DTC – 3 DIGIT DISP
INSTRUCTION MANUAL

On Power ON, the following sequence of characters will be displayed on the front panel

C	E	n	For one sec
d	T	C	
u	E	r	For one sec
	4.	0	
r	L	y	For one sec
	x		

NOTE: x = 1 , Single relay option
x = 2 , Two relay option

After 2 seconds, you will see temperature from HOT Sensor being displayed on the top 7 segment Displays and temperature from COLD Sensors on the bottom segment Displays as shown below

5	8.	3	➔ Hot sensor Temperature
4	5.	4	➔ Cold sensor Temperature

This is the **DEFAULT mode** of operation of CMSC-7886.

In DEFAULT mode, decimal value will not be displayed if the temperature is above 100 deg C.

To set Differential Temperature:

1) Press **DIFF/SCROLL** key. Now, previously set Differential Temperature value will be displayed on the front panel as shown below

d	f	f	
0	2	7	➔ Previous set value

2) Use **INC** and **DEC** keys to change the value
3) Press **DIFF/SCROLL** key again to store the value and return to **DEFAULT mode**

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To set Hysteresis:

1) Press **HYS/ENTER** key. Now, previously set Hysteresis Value will be displayed on the front panel as shown below

H	**y**	**S**
0	**0**	**1**

➔ Previous Hysteresis value

2) Use **INC** and **DEC** keys to change the value
3) Press **HYS/ENTER** key again to store the value and return to **DEFAULT mode**

To set Over Temperature:

1) Press **INC + ENTER** keys. Display will be as shown below

O	**u**	**t**
1	**2**	**0**

➔ Previous over temperature value

2) Use **INC** and **DEC** keys to change the value
3) Press **ENTER** key again to store the value and return to **DEFAULT mode**

- At any point of time, press **INC + DEC** to return to DEFAULT mode but without storing the modified values.
- If no key is pressed for more than 20 seconds, controller returns automatically back to DEFAULT mode

Control Mode and Relay Selection:

1) Press **INC + ENTER** keys. Display will be as shown below

O	**u**	**t**
1	**2**	**0**

2) Press **SCROL.** You will see the control mode (AUTO/MANUAL) on two 7segment displays on the left and selected relay (Relay1/Relay2/Cyclic) on two 7segment displays on the right.

	A	**u**
	r	**1**

➔ Control mode is AUTO

➔ Selected relay is relay 1

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3) Use **INC** / **DEC** keys to change the control mode and relay selection. Following are the available options:
   - AU r1 - Auto mode, Relay1
   - AU r2 - Auto mode, Relay2
   - AU Cy - Auto Cyclic
   - Mn r1 - Manual, Relay1
   - Mn r2 - Manual, Relay2

4) Press **ENTER** key again to store the selected option.
5) If the selected option is **AUTO Relay1 / AUTO Relay2,** it will return to **DEFAULT mode.** If the selected option is **AUTO CYCLIC**, go to step6. If the selected option is **Manual Relay1 / Manual Relay2,** go to step 9.

6) If the selected option is AUTO CYCLIC, the next parameter you will see is Number of Relay ON-OFF Cycles for alternating between relay1 and relay2

	C	y
	t	m

0	0	0
0	0	4

7) The default value is 4 cycles. Use **INC/DEC** keys to change this value.
8) Press **ENTER** key again to store the selected option and return to DEFAULT mode.
9) If the selected option is MANUAL, the next parameter is Relay Status (ON/OFF). You will see the display as shown below.

	r	1
	O	n

➔ Present Relay status

- At any point of time, press **INC + DEC** to return to DEFAULT mode but without storing the modified values.
- If no key is pressed for more than 20 seconds, controller returns automatically back to DEFAULT mode

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ERROR MESSAGES

SL No	ERROR MESSAGE	DISPLAY ON FRONT PANEL	POSSIBLE CAUSE
1	Channel 1 Sensor Fault	F L t x x x	1)HOT Sensor might not be connected properly 2)The sensor might be faulty
2	Channel 2 Sensor Fault	x x x F L t	1)COLD Sensor might not be connected properly 2)The sensor might be faulty
3	Sensors Error	E r r E r r	1)COLD Sensor Temperature is more than the HOT sensor Temperature 2) One of the Sensors might not be connected properly 3) One of the sensors might not be working properly
4	Over Temperature	O u r t m p	1) HOT Sensor Temperature has gone above the Over Temperature value set by the user