



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
d	T	C

} For one sec

u	E	r
	4.	0

} For one sec

r	L	y
	x	

} For one sec

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
4	5.	4

→ Hot sensor Temperature
→ 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

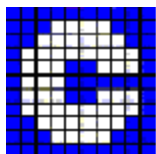
	C	y	0	0	0
	t	m	0	0	4

- 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	<table><tr><td>F</td><td>L</td><td>t</td></tr><tr><td>x</td><td>x</td><td>x</td></tr></table>	F	L	t	x	x	x	1)HOT Sensor might not be connected properly 2)The sensor might be faulty
F	L	t							
x	x	x							
2	Channel 2 Sensor Fault	<table><tr><td>x</td><td>x</td><td>x</td></tr><tr><td>F</td><td>L</td><td>t</td></tr></table>	x	x	x	F	L	t	1)COLD Sensor might not be connected properly 2)The sensor might be faulty
x	x	x							
F	L	t							
3	Sensors Error	<table><tr><td>E</td><td>r</td><td>r</td></tr><tr><td>E</td><td>r</td><td>r</td></tr></table>	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
E	r	r							
E	r	r							
4	Over Temperature	<table><tr><td>O</td><td>u</td><td>r</td></tr><tr><td>t</td><td>m</td><td>p</td></tr></table>	O	u	r	t	m	p	1) HOT Sensor Temperature has gone above the Over Temperature value set by the user
O	u	r							
t	m	p							