

USER Manual for Astronomical Timer for Street Light Control (GSM Enabled)

Display parameter:-

Sr. No	Message	Display	Description
1	Energy (kWh)	XXXXX.X	LCD Display
2	Voltage (V)	XXX.X	LCD Display
3	Current (A)	XX.XX	LCD Display
4	Power factor (PF)	XX	LCD Display
5	Power (kW)	XX.XX	LCD Display
6	Frequency (Fr)	XX.XX	LCD Display
7	Real Time	XX:XX:XX	LCD Display
8	Real Date	XX:XX:XX	LCD Display
9	Current Month On Time (On)	XX:XX	LCD Display
10	Current Month Off Time (OF)	XX:XX	LCD Display
11	Latitude (n)	XXX.XX	LCD Display
12	Longitude (E)	XXX.XX	LCD Display
13	GMT (P)	:X.X:XX	LCD Display
14	Twilight On Time (tL:n)	XX	LCD Display
15	Twilight OFF Time (tL:F)	XX	LCD Display
16	Communication ID (Id)	XXX	LCD Display
17	Meter Serial No. (Location ID)	XXXXXX	LCD Display

Programming Parameters:-

Sr. No	Programming
1	To enter the programming mode long press the switch
2	The meter shall prompt for entry of password. The default password is "1000"
3	Meter will start count from 0-9 automatically
4	Press switch on desired digit to set the password 1000
5	After pressing switch meter will shift to the next digit
6	Now count from 0-9 will start for the next digit
7	Again press switch on the desired digit
8	Follow the process steps from 1-7
9	Now meter goes to set "LATITUDE" setting.
11	Now press switch display shows "XXX.XXE ⁰¹ ".
12	Now press switch for changing the value of first digit and set the value. Press

	switch, display Shows "XXX.XXE ⁰² ".
13	Now press switch for changing the value of Second digit and set the value. Press switch display Shows "XXX.XXE ⁰³ "
14	Now press switch for changing the value of third digit and set the value. Press switch display Shows "XXX.XXE ⁰⁴ ".
15	Now press switch for changing the value of fourth digit and set the value. Press switch display Shows "XXX.XXE ⁰⁵ ".
16	Now press switch for changing the value of fifth digit and set the value.
17	Now meter goes to set " LONGITUDE " setting.
18	Now press switch display shows "XXX.XXE ⁰¹ ".
19	Now press switch for changing the value of first digit and set the value. Press switch, display Shows "XXX.XXE ⁰² ".
20	Now press switch for changing the value of Second digit and set the value. Press switch display Shows "XXX.XXE ⁰³ "
21	Now press switch for changing the value of third digit and set the value. Press switch display Shows "XXX.XXE ⁰⁴ ".
22	Now press switch for changing the value of fourth digit and set the value. Press switch display Shows "XXX.XXE ⁰⁵ ".
23	Now press switch for changing the value of fifth digit and set the value.
24	Now press the switch then meter goes into setting of " TIME ZONE SETTING ". Display Shows P :0.5:00.
25	With the help of 11-16 we can change the TIME ZONE.
26	Now press the switch then meter goes into setting of " TWILIGHT ON TIME ". Display Shows tL:n :10
27	With the help of 11-16 we can change the TWILIGHT ON TIME.
28	Now press the switch then meter goes into setting of " TWILIGHT OFF TIME ". Display Shows tL:F :20
29	With the help of 11-16 we can change the TWILIGHT OFF TIME.
30	Now press the switch then meter goes into setting of " LOCATION ID ". Display Shows 121212.
31	With the help of 11-16 we can change the LOCATION ID.
32	Now press the switch then meter goes into setting of " OVER LOAD ". Display Shows Ld 45.00.
33	With the help of 11-16 we can change the OVER LOAD.
34	Now press the switch then meter goes into setting of Voltage " LOWER LIMIT ". Display Shows LL 160.0.
35	With the help of 11-16 we can change the Voltage LOWER LIMIT.
36	Now press the switch then meter goes into setting of Voltage " PER LIMIT ". Display Shows LL 260.0.
37	With the help of 11-16 we can change the Voltage PER LIMIT.
38	Now press the switch then meter goes into setting of " METER ID ". Display Shows ID 001.
39	With the help of 11-16 we can change the METER ID.
40	Press switch. Now meter goes into setting the " REAL TIME ". Display shows "XX:XX:XX ⁰¹ "
41	Now press switch for changing the value of first digit and set the

		value. Press switch display shows "XX: XX: XX ⁰² "
42	Real Time Setting	Now press switch for changing the value of second digit and set the value. Press switch display shows "XX: XX: XX ⁰³ "
43		Now press switch for changing the value of third digit and set the value. Press switch display shows "XX: XX: XX ⁰⁴ "
44		Now press switch for changing the value of fourth digit and set the value. Press switch display shows "XX: XX: XX ⁰⁵ "
45		Now press switch for changing the value of fifth digit and set the value. Press switch display shows "XX: XX: XX ⁰⁶ "
46		Now press the switch for changing the value of sixth digit and set the value.
47		Real Date Setting
48	Now press switch for changing the value of first digit and set the value. Press switch display shows "XX: XX: XX ⁰² "	
49	Now press switch for changing the value of second digit and set the value. Press switch display shows "XX: XX: XX ⁰³ "	
50	Now press switch for changing the value of third digit and set the value. Press switch display shows "XX: XX: XX ⁰⁴ "	
51	Now press switch for changing the value of fourth digit and set the value. Press switch display shows "XX: XX: XX ⁰⁵ "	
52	Now press switch for changing the value of fifth digit and set the value. Press switch display shows "XX: XX: XX ⁰⁶ "	
53	Now press the switch for changing the value of sixth digit and set the value.	
54	Month wise Time Setting	Now meter goes to set "MONTH WISE TIME" setting. Set the month wise time setting. Display Shows On 01
55		Now press switch then display shows "JA: XX: XX".
56		Now press switch then display shows "JA: XX: XX ⁰¹ ".
57		Now press switch for changing the value of first digit and set the value. Press switch, display Shows "XX: XX ⁰² ".
58		Now press switch for changing the value of Second digit and set the value. Press switch display Shows "XX: XX ⁰³ "
59		Now press switch for changing the value of third digit and set the value. Press switch display Shows "XX: XX ⁰⁴ "
60		Now press switch for changing the value of fourth digit and set the value.
61		Now press the switch then meter goes into setting the FEB Month On time, By using above steps user can set ON timings of 12 months.
		Now press the switch then meter goes into setting the off time "Off 01".
62		With the help of 55-61 we can change the off time.
	Note: MONTH WISE ON-OFF timings will only work if Astronomical feature is in disabled mode.	
63	Now press the switch then meter goes into setting of "ASTRONOMICAL	

	ENABLE/DISABLE FEATURE". Display Shows AStr E.
64	Now press switch for selecting between Enable/Disable.
65	Now press the switch then meter goes into "SAVE" Mode. Display Shows SAVE.
66	Now press switch display shows SAVE Y, again press key to save all settings. (If do not want to save all setting press key. Display shows SAVE n & then press key) Display shows Done & goes back into Instant display mode.
Sr. No	Programming for Manual Mode
1	To enter the programming mode press both switch together
2	The meter shall prompt for entry of password. The default password is "1717"
3	Now press the switch, display shows "P 0000 ¹ "
4	Now press switch display shows "P 1000 ¹ "
5	Now press switch display shows "P 1000 ² ", press switch to change second digit. Display shows "P 1700 ² "
6	Now press switch display shows "P 1700 ³ ", press switch to change third digit. Display shows "P 1710 ³ "
7	Now press switch display shows "P 1710 ⁴ ", press switch to change third digit. Display shows "P 1717 ⁴ "
8	Now press switch. Display shows "NORMAL".
9	Press key to change the mode between NORMAL/MANUAL/INTERMEDIATE Mode.
10	Now press the switch then meter goes into "SAVE" Mode. Display Shows SAVE.
11	Now press switch display shows SAVE Y, again press key to save all settings. (If do not want to save all setting press key. Display shows SAVE n & then press key) Display shows Done & goes back into Instant display mode.
	Working of Manual Mode
	If Controller is in manual mode, press key for 10 sec to ON, again press key for 10 sec to OFF.

Note: - All settings can also be done thru software via RS-485 link. Software can be installed by CD provided.