

Auto Scroll Display

TABLE-1

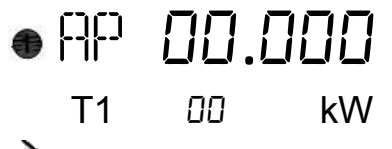

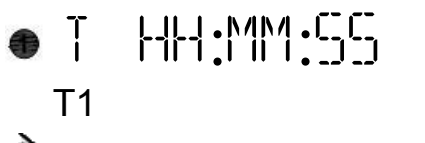


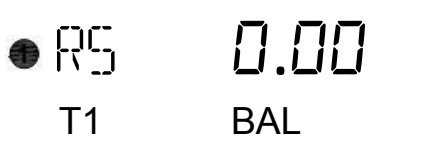
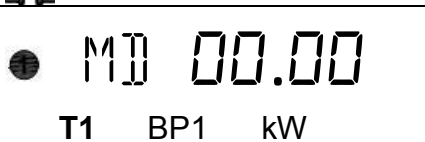





1.		Active power in kW
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TABLE-2















1.		All Segment Display
2.		Real Time (hh:mm:ss)
3.		Real Date (dd:mm:yy)
4.		Cumulative active energy (kWh/kVAh)
5.		Balance in rupees
6.		Last Month MD (kW/kVA)
7.		Cumulative Billing Period Counts

8A.	 POST PAID T1 	When Postpaid present
8B.	 PRE PAID T1 	When Prepaid present

Push Button Display

TABLE-3

PUSH-1 MODE: Press key '1' to see the approximate Days left , tamper status of Magnet, Earth load, Current Reverse, Measurement Shift, and ND and last five ABC codes.

1.	 DL 00 T1 	Approximate Days left
2.	 MAGNET T1 no 	When magnet tamper not present
2a.	 MAGNET T1 YE 	When magnet tamper present is displayed as YE
3.	 EL T1 no 	When Earth load tamper not present
3a.	 EL T1 YE 	When Earth load tamper present is displayed as YE
4.	 REV T1 no 	When Reverse current tamper is not present
4a.	 REV T1 YE 	When Reverse current tamper present is displayed as YE

5.	 T1 MES SHFT no	When Measurement Shift tamper is not present
5a.	 T1 MES SHFT YE	When Measurement Shift tamper present is displayed as YE
6.	 T1 ND no	When Neutral Disturbance Tamper is not present
6a.	 T1 ND YE	When Neutral Disturbance Tamper is present is displayed as YE
7.	 A1 00000 T1 BP1	Last ABC Code Part-1
8.	 A2 00000 T1 BP1	Last ABC Code Part-2
9.	 A3 00000 T1 BP1	Last ABC Code Part-3
10.	 A4 00000 T1 BP1	Last ABC Code Part-4
11.	 A1 00000 T1 BP2	2 ND Last ABC Code Part-1
12.	 A2 00000 T1 BP2	2 ND Last ABC Code Part-2
13.	 A3 00000 T1 BP2	2 ND Last ABC Code Part-3

14.	 A4 T1 BP2 	2 ND Last ABC Code Part-4
15.	 A1 T1 BP3 	3 RD Last ABC Code Part-1
16.	 A2 T1 BP3 	3 RD Last ABC Code Part-2
17.	 A3 T1 BP3 	3 RD Last ABC Code Part-3
18.	 A4 T1 BP3 	3 RD Last ABC Code Part-4
19.	 A1 T1 BP4 	4 TH Last ABC Code Part-1
20.	 A2 T1 BP4 	4 TH Last ABC Code Part-2
21.	 A3 T1 BP4 	4 TH Last ABC Code Part-3
22.	 A4 T1 BP4 	4 TH Last ABC Code Part-4
23.	 A1 T1 BP5 	5 TH Last ABC Code Part-1
24.	 A2 	5 TH Last ABC Code Part-2

	T1 BP5	
25.	 T1 BP5	5 TH Last ABC Code Part-3
26.	 T1 BP5	5 TH Last ABC Code Part-4

PUSH-2 MODE : Press key '2' to see Last day consumption, last week consumption and last 12 months consumption in terms of rupees.

1.	 T1 Ld	Last day consumption in Rs
2.	 T1 LU	Last week consumption in Rs
3.	 T1 BP1	Last month consumption in Rs
4.	 T1 BP2	2 nd Last month consumption in Rs
5.	 T1 BP3	3rd Last month consumption in Rs
6.	 T1 BP4	4th Last month consumption in Rs
7.	 T1 BP5	5 th Last month consumption in Rs

8.	 T1 BP6 	0.00	6 th Last month consumption in Rs
9.	 T1 BP7 	0.00	7 th Last month consumption in Rs
10.	 T1 BP8 	0.00	8 th Last month consumption in Rs
11.	 T1 BP9 	0.00	9 th Last month consumption in Rs
12.	 T1 BP10 	0.00	10 th Last month consumption in Rs
13.	 T1 BP11 	0.00	11 th Last month consumption in Rs
14.	 T1 BP12 	0.00	12 th Last month consumption in Rs

PUSH-3 MODE: Press key '3' to see the tariff rates and their corresponding energy (kWh/kVAh) and daily fixed charge.

Below 8 slabs/TOD's Are Configurable












1.	 RS T1 51 	0.00	1 st Slab Rate in rupees
2.	 T1 51 kWh 	000000.0	1 st Slab energy (in kWh/kVAh)



















3.		2 nd Slab Rate in rupees
4.		2 nd Slab energy (in kWh/kVAh)
5.		3 rd Slab Rate in rupees
6.		3 rd Slab energy (in kWh/kVAh)
7.		4 th Slab Rate in rupees
8.		4 th Slab energy (in kWh/kVAh)
9.		5 th Slab Rate in rupees
10.		5 th Slab energy (in kWh/kVAh)
11.		6 th Slab Rate in rupees
12.		6 th Slab energy (in kWh/kVAh)

13.	RS 0.00 T1 57	7 th Slab Rate in rupees
14.	000000.0 T1 57 kWh	7 th Slab energy (in kWh/kVAh)
15.	RS 0.00 T1 58	8 th Slab Rate in rupees
16.	000000.0 T1 58 kWh	8 th Slab energy (in kWh/kVAh)
17.	0.00 T1 FC	Fixed charge per day (in Rs.)

PUSH-4 MODE: Press key '4' to see last 5 vend codes and refund code.

1.	1A 00000 T1	Last vend Code Part-1
2.	1B 00000 T1	Last vend Code Part-2
3.	1C 00000 T1	Last vend Code Part-3
4.	1D 00000 T1	Last vend Code Part-4

5.	 <p>● 2A 00000 T1</p>	2 ND Last vend Code Part-1
6.	 <p>● 2B 00000 T1</p>	2 ND Last vend Code Part-2
7.	 <p>● 2C 00000 T1</p>	2 ND Last vend Code Part-3
8.	 <p>● 2D 00000 T1</p>	2 ND Last vend Code Part-4
9.	 <p>● 3A 00000 T1</p>	3 RD Last vend Code Part-1
10.	 <p>● 3B 00000 T1</p>	3 RD Last vend Code Part-2
11.	 <p>● 3C 00000 T1</p>	3 RD Last vend Code Part-3
12.	 <p>● 3D 00000 T1</p>	3 RD Last vend Code Part-4
13.	 <p>● 4A 00000 T1</p>	4 TH Last vend Code Part-1
14.	 <p>● 4B 00000 T1</p>	4 TH Last vend Code Part-2
15.	 <p>● 4C 00000 T1</p>	4 th Last vend Code Part-3

	T1	
16.	  T1	4 th Last vend Code Part-4
17.	  T1	5 th Last vend Code Part-1
18.	  T1	5 th Last vend Code Part-2
19.	  T1	5 th Last vend Code Part-3
20.	  T1	5 th Last vend Code Part-4
21.	  T1	Refund Code Part-1
22.	  T1	Refund Code Part -2
23.	  T1	Refund Code Part -3
24.	  T1	Refund Code Part -4

PUSH-5 MODE: Press key '5' to see cumulative recharge amount, Cumulative fixed charge, meter serial number, sanction load , Minimum Charge Amount, All segment Display, Present Relay Status, Overload Limit, Over Current Limit , Cumulative Tamper Counts and Cumulative Bill Counts.

1.		Cumulative recharge amount (in Rs.)
2.		Cumulative Fixed charge (in Rs.)
3.		Meter serial number
4.		Sanctioned load in kW
5.		Minimum Charge amount (in Rs.)
6.		All segment Display
7.		Present Relay Status ON/OFF
8.		Overload Limit (in kw)
9.		Over Current Limit (in Amp.)

10.	TC 000 T1 CU	Cumulative Tamper Counts
11.	000 T1 BP CU	Billing Period Counts


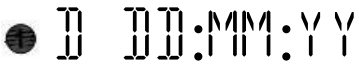
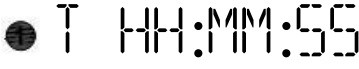

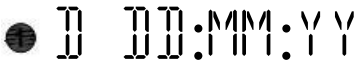
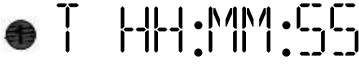

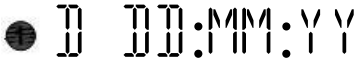
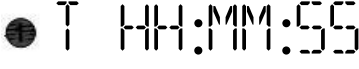


PUSH-6 MODE: Press key '6' to see the Active power, Apparent power, Voltage, Power factor, Phases current, Neutral current, Date, Time, Frequency and Load Cost .






















1.	AP 00.000 T1 kW	Active power in kW
2.	00.000 T1 kVA	Apparent power in kVA
3.	000.00 T1 V	Instantaneous Voltage in volts
6.	PF 0.000 T1	Instantaneous Power Factor
7.	IP 00.000 T1 A	Instantaneous Phase current in Amps.
8.	IN 00.000 T1 A	Instantaneous Neutral current in Amps.
11.	D DD:MM:YY T1	Real Date (dd:mm:yy)


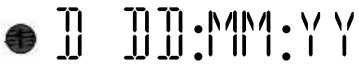
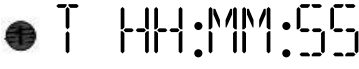

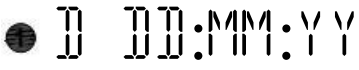
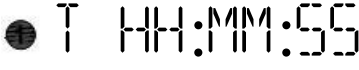

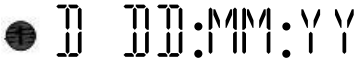
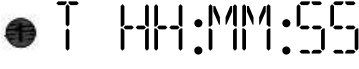


12.	T HH:MM:SS T1	Real Time (hh:mm:ss)
13.	FR 00.000 T1 HZ	Instant Frequency in Hz
14.	RS 0.00 T1 LC	Approximate Load cost (in Rs.)

PUSH-7 MODE: Press key '7' to see current month and last 12 month MD (in kW/kVA) with date and time.

1.	MD 00.00 T1 kW	Current month MD (in kW/kVA)
2.	DD:MM:YY T1	Current month MD Date (dd:mm:yy)
3.	T HH:MM:SS T1	Current month MD Time (hh:mm:ss)
4.	MD 00.00 T1 BP1 kW	Last month MD (in kW/kVA)
5.	DD:MM:YY T1 BP1	Last month MD Date (dd:mm:yy)
6.	T HH:MM:SS T1 BP1	Last month MD Time (hh:mm:ss)

7.	 T1 BP2 kW	Last 2 nd month MD (in kW/kVA)
8.	 T1 BP2	Last 2 nd month MD Date (dd:mm:yy)
9.	 T1 BP2	Last 2 nd month MD Time (hh:mm:ss)
10.	 T1 BP3 kW	Last 3 rd month MD (in kW/kVA)
11.	 T1 BP3	Last 3 rd month MD Date (dd:mm:yy)
12.	 T1 BP3	Last 3 rd month MD Time (hh:mm:ss)
13.	 T1 BP4 kW	Last 4 th month MD (in kW/kVA)
14.	 T1 BP4	Last 4 th month MD Date (dd:mm:yy)
15.	 T1 BP4	Last 4 th month MD Time (hh:mm:ss)
16.	 T1 BP5 kW	Last 5 th month MD (in kW/kVA)
17.	 T1 BP5	Last 5 th month MD Date (dd:mm:yy)

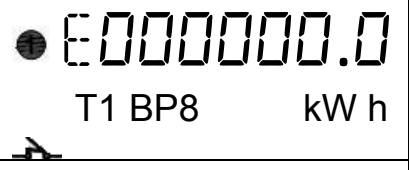
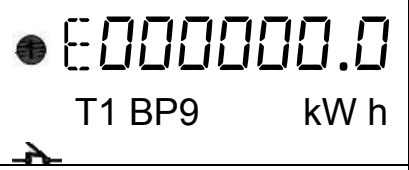
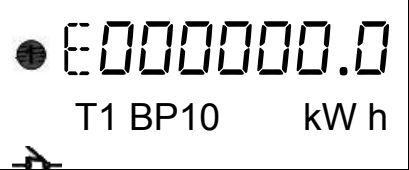
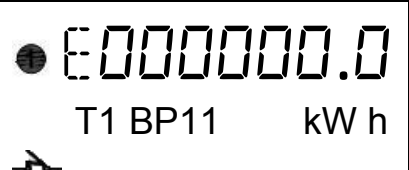
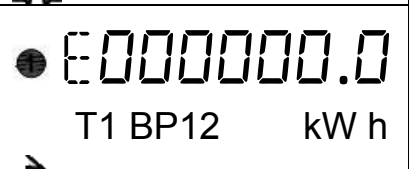
	T1 BP5 	
18.	 T HH:MM:SS T1 BP5 	Last 5 th month MD Time (hh:mm:ss)
19.	 MD 00.00 T1 BP6 kW 	Last 6 th month MD (in kW/kVA)
20.	 DD:MM:YY T1 BP6 	Last 6 th month MD Date (dd:mm:yy)
21.	 T HH:MM:SS T1 BP6 	Last 6 th month MD Time (hh:mm:ss)
22.	 MD 00.00 T1 BP7 kW 	Last 7 th month MD (in kW/kVA)
23.	 DD:MM:YY T1 BP7 	Last 7 th month MD Date (dd:mm:yy)
24.	 T HH:MM:SS T1 BP7 	Last 7 th month MD Time (hh:mm:ss)
25.	 MD 00.00 T1 BP8 kW 	Last 8 th month MD (in kW/kVA)
26.	 DD:MM:YY T1 BP8 	Last 8 th month MD Date (dd:mm:yy)
27.	 T HH:MM:SS T1 BP8 	Last 8 th month MD Time (hh:mm:ss)

28.	 T1 BP9 kW	Last 9 th month MD (in kW/kVA)
29.	 T1 BP9	Last 9 th month MD Date (dd:mm:yy)
30.	 T1 BP9	Last 9 th month MD Time (hh:mm:ss)
31.	 T1 BP10 kW	Last 10 th month MD (in kW/kVA)
32.	 T1 BP10	Last 10 th month MD Date (dd:mm:yy)
33.	 T1 BP10	Last 10 th month MD Time (hh:mm:ss)
34.	 T1 BP11 kW	Last 11 th month MD (in kW/kVA)
35.	 T1 BP11	Last 11 th month MD Date (dd:mm:yy)
36.	 T1 BP11	Last 11 th month MD Time (hh:mm:ss)
37.	 T1 BP12 kW	Last 12 th month MD (in kW/kVA)
38.	 T1 BP12	Last 12 th month MD Date (dd:mm:yy)

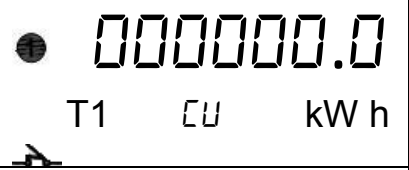
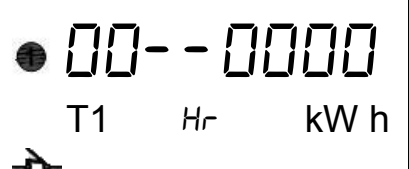
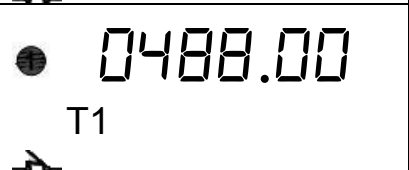
	T1 BP12 ↵	
39.	● T HH:MM:SS T1 BP12 ↵	Last 12 th month MD Time (hh:mm:ss)

PUSH-8 MODE: Press key '8' to see last 12 month billing Cumulative Energy (in kWh/kVAh)

1.	● E0000000.0 T1 BP1 kW h ↵	Last month Billing Energy
2.	● E0000000.0 T1 BP2 kW h ↵	Last 2 nd month Billing Energy
3.	● E0000000.0 T1 BP3 kW h ↵	Last 3 rd month Billing Energy
4.	● E0000000.0 T1 BP4 kW h ↵	Last 4 th month Billing Energy
5.	● E0000000.0 T1 BP5 kW h ↵	Last 5 th month Billing Energy
6.	● E0000000.0 T1 BP6 kW h ↵	Last 6 th month Billing Energy
7.	● E0000000.0 T1 BP7 kW h ↵	Last 7 th month Billing Energy

8.		Last 8 th month Billing Energy
9.		Last 9 th month Billing Energy
10.		Last 10 th month Billing Energy
11.		Last 11 th month Billing Energy
12.		Last 12 th month Billing Energy

PUSH-9 MODE: Press key '9' to see Cumulative energy (in kWh/kVAh) and High resolution energy (in kWh/kVAh) and Meter Software Version.

1.		Cumulative energy (in kWh/kVAh)
2.		High resolution energy (in kWh/kVAh)
3.		Meter Software Version

PUSH-# MODE: Press key '#' to see the balance amount left in meter.

1.	● RS T1 BAL	0.00	Balance in rupees
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PUSH-0 MODE: Press key '0' to avail the emergency credit and to see the emergency credit.

1.	● T1 ECBAL	0.00	If Emergency credit left (in Rs.)
1a.	● DAY T1 EC BAL	000	If Emergency credit left (in days)
1b.	● POST PAID T1		When Meter in Postpaid Mode

PUSH-* MODE: Press key '*' at start token code punching and as backspace key.

DISPLAY MODES:-

Under Power ON condition

Display parameters are displayed in two different modes called Auto Scrolling and push button mode.

Auto Scroll Display:

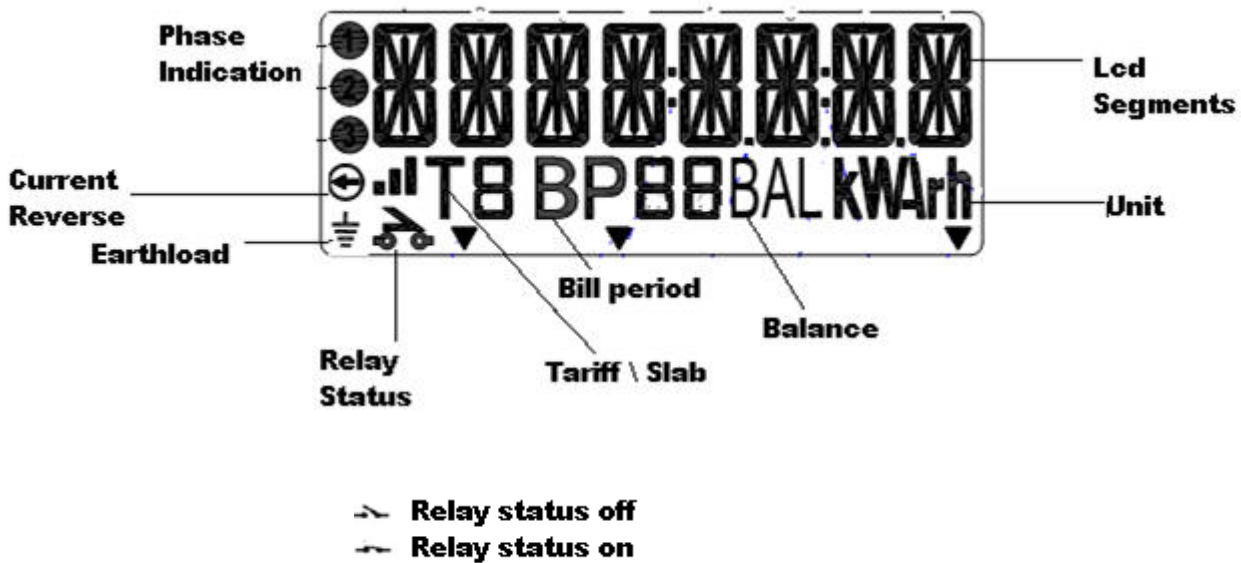
- This is default display mode. Meter will continuously scroll through Auto Scroll Display Parameters (Refer TABLE-1 for Calibration Mode and Refer TABLE-2 for Main Mode). Each parameter will be displayed for 10 seconds.
- If Top cover open tamper or overload condition occur then it will display permanently and auto scroll mode display will be disabled.


- If any of the following tamper is present in meter then it will also display in auto scroll mode with following priority.

- 1.RTC FAIL
- 2.NVM FAIL
- 3.HV ESD
- 4.MAGNET

Push Button Display: -The auto scrolling will switch to Push Button Display with pressing of respective keys via keypad & all Push Button Display parameters (Refer TABLE-3 for meter Push mode). Can be view by using key .If Push Button not pressed for 30Sec then Display will switch over to default Display.

LCD Indication:-



-  Sign appear on every display in main mode when communicated with CIU after FG whereas before FG In Calibration mode it will be seen as blinking sign which denotes meter is not calibrated.

Revision No.	Revision History	Date
00	Initial	22/05/2017
01	Balance add in Auto mode	17/06/2017

Authentication

Particulars	Prepared By	Approved By
Name	Vinod kumar	Deepak Sharma
Signature	Vinod kumar	Deepak Sharma
Date	22/05/2017	22/05/2017