

USER MANUAL

E5000

Prepaid Revenue Meter

This document contains the latest technical information about E5000 which is a micro-controller based Prepaid Revenue Meter. The unit is tested against latest "MTE" Standard Model PRS400.3 having basic accuracy of 0.02%, and is also traceable to International Standards derived using appropriate ratio techniques.

The product, E5000 is sophisticated electronic equipment, and the user is advised to read this User's Manual carefully before attempting to install or operate the equipment.

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Introduction

The digital energy meter E5000 is a micro-controller based unit which not only measures a host of electrical parameters to display them on a customized segment LCD with white backlit, but also acts as a comprehensive load control device due to its three numbers of internal latching relay contacts. These latching relays will cut load when either load exceeds KW limit or credited balance reach to zero. In addition to this flexibility in terms of load control, the meter also has two serial ports. Both port follows RS485 medium. One port is for EMS/SCADA and second for Remote Display Unit (*optional*). RS485 supports MODBUS RTU protocol for connections to EMS/SCADA.

The unit is meant for use in three phase four wire systems with Active Power (KW) control. The meter address, resetting the energy, date, time & day in RTC is site programmable.

E5000 has dual source input. So when 230Volt AC input applied at dual source input, then meter will register DG Energy.

The Main Features of the unit

- Displays more than 20 Parameters.
- RFID Based Secured Contactless Prepaid Parameter Programming
- Demand and Maximum Demand for both KW and KVA including date and time of maximum demand occurrence.
- Measurements of Individual three phase voltage, current and PF.
- Measurements of Energies, System PF, Powers and frequency.
- Internal latching relays for control power to load.
- RS485 MODBUS-RTU connectivity with field programmable RTC.
- Customized Segment LCD with white backlight.

Technical Specifications

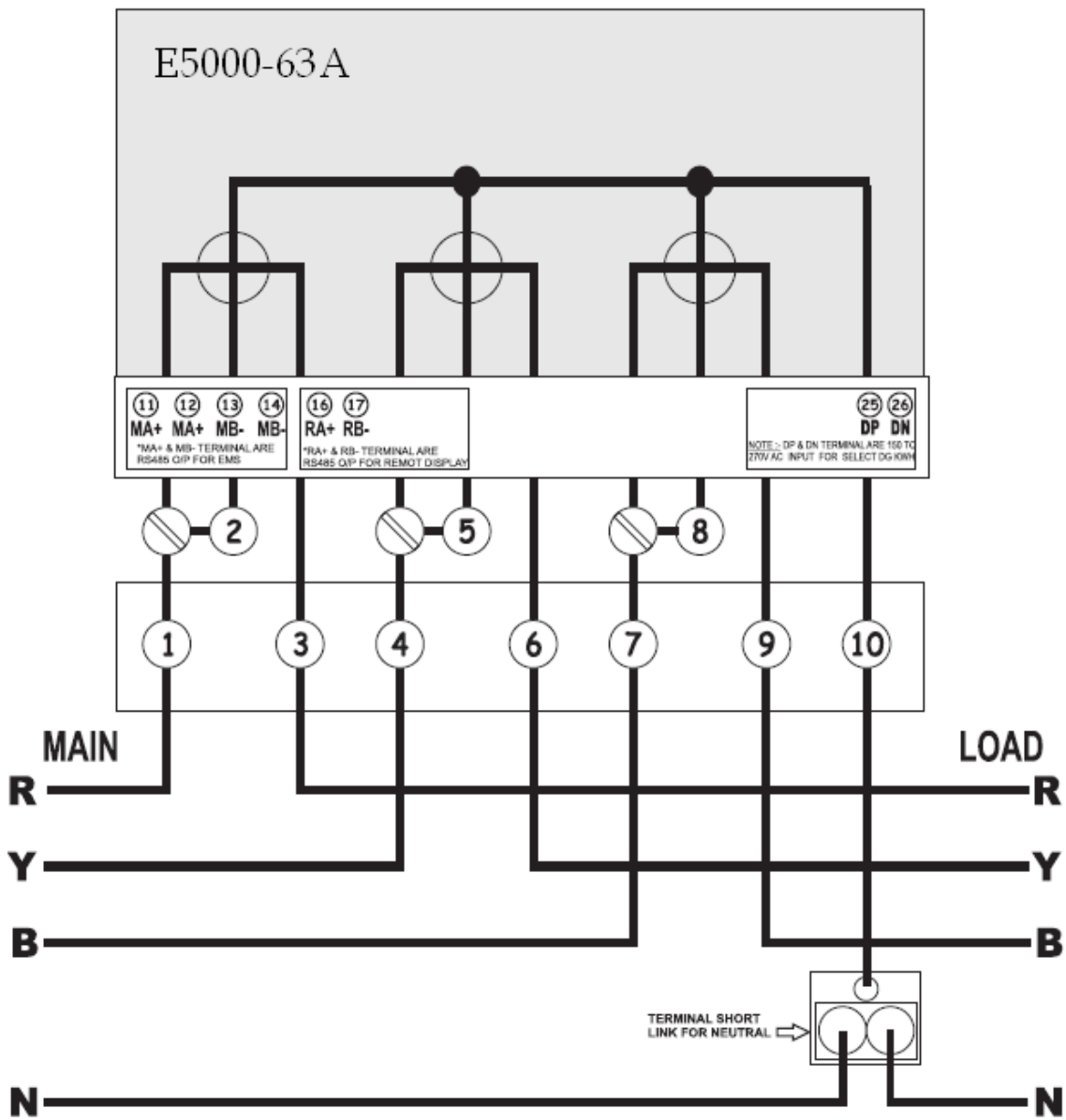
Parameters			
Type	Name	Statistics	
INPUT	Three Phases and Neutral of a 3P4W system		
	Voltage	Direct Voltage Input : Up to 300V L-N, 50-60 Hz.	
	Current	Whole Current Meter with up to 60A rating	
	Power Supply	Auxiliary Supply: Not Needed	
OUTPUT	Latching Relay	Three. One on Each Phase. CONTACT: 60A, 250VAC	
MEASUREMENT	True RMS Basic Parameters	Voltage (Volts L-N) VL-N Accuracy : 0.5% of Reading	
		Current (Amps IR, IY, IB) Accuracy : 0.25% of Reading	
		Line Frequency 45 to 55 Hz, Accuracy : 0.3% of Reading	
	Power	Active Power (P) Accuracy (For IPFI>0.5) : 0.5% of Reading	
		Reactive Power (Q) Accuracy : 1.0% of Reading (Between 0.5 Lag to 0.8 Lead)	
		Apparent Power (S) Accuracy : 0.5% of Reading	
		Power Factor Accuracy : 0.5% of Reading (IPFI≥0.5) Range of Reading : 0.05 to 1.00 Lag/Lead	
	Energy	Total Active Energy (KWH) Accuracy : 0.5 of Reading	
		Total Apparent Energy (KVAH) Accuracy : 0.5% of Reading	
		Total Reactive Energy (KVARH) Accuracy : 1.0% of Reading	
	Demand	Active Power (KW) Demand – 30-Minute Fixed Window	
		Apparent Power (KVA) Demand - 30-Minute Fixed Window	

Installation and Commissioning

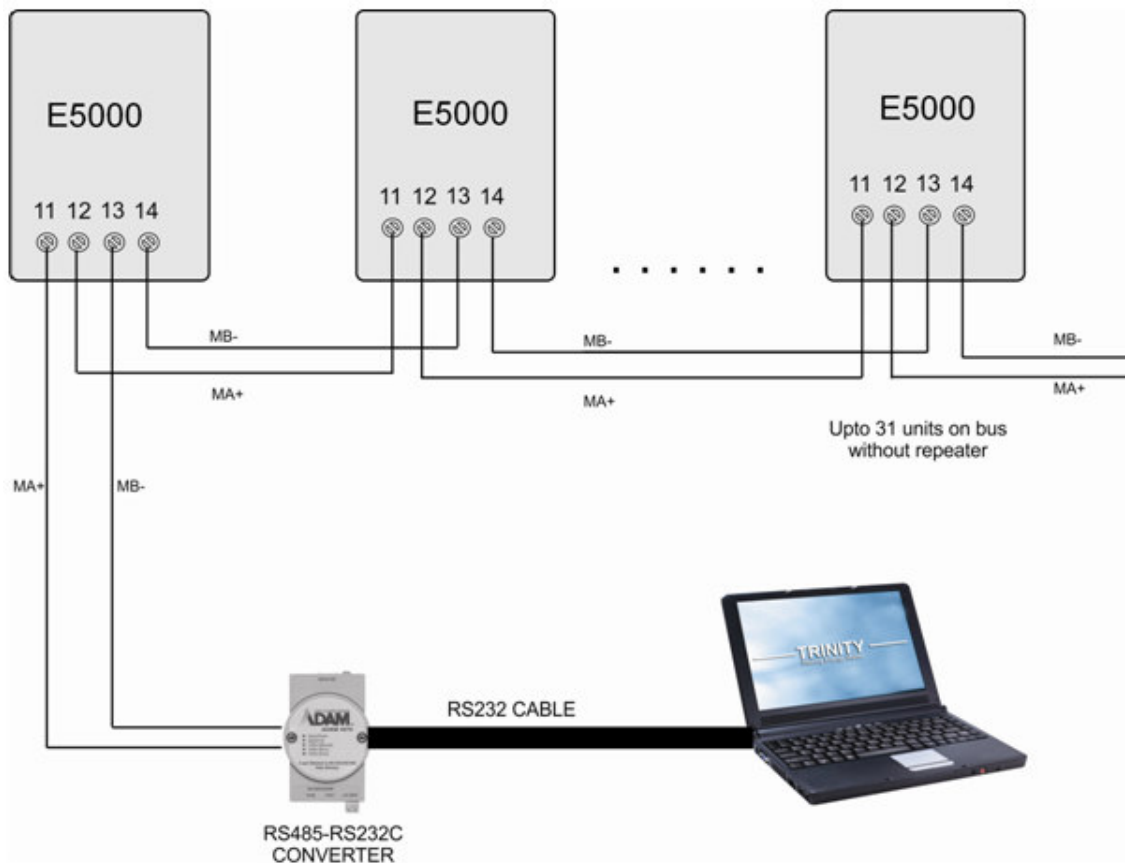
The unit supports only for 3P4W electrical installation and user is advised to read carefully the instructions before installing and commissioning.

Follow the steps below to install and commission the unit

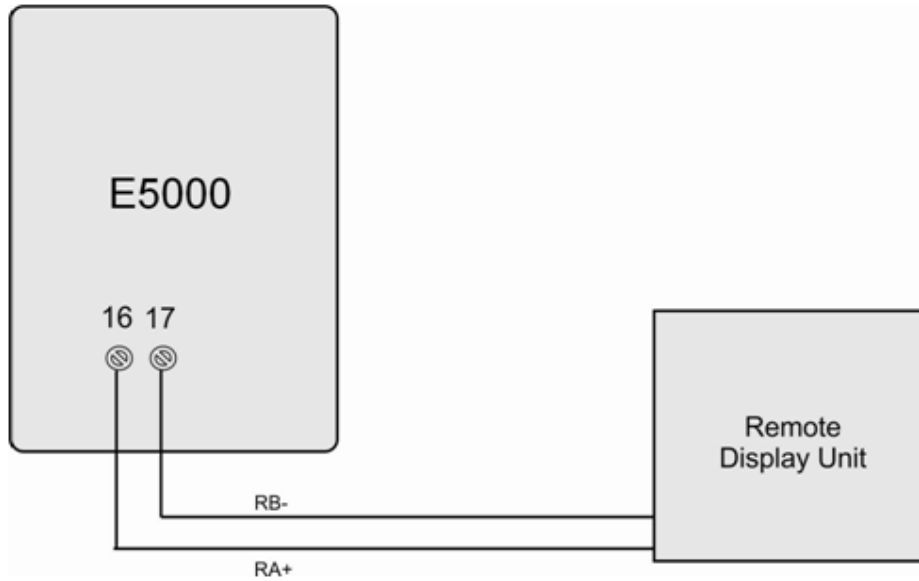
1. Push the unit into the panel and mount on the wall.
2. Connect the three phases with the phase sequence being R-Y-B to the terminal marked, 1, 4 and 7. Connect the neutral wire to the terminal marked, 10. Make sure that the three phases coming to the meter come through the control fused appropriate Amp rating. This will protect the electronic inside from damage due to severe overvoltage or phase faults in the systems.



3. The three phases R, Y and B coming from load will connect to the terminals marked 3, 6, and 9, and then connect the neutral wire to the terminal marked 10.
4. In case of DG, the two wires coming from the DG will connect to the terminals marked 25 and 26(DP and DN) with a supply voltage of 150VAC to 270 VAC. Now, switch on the three phase supply, then the unit will display power receiving information such as TESPL, and then the unit comes to RUN mode displaying KWH and increasing value in DG.
5. Firstly, the unit should be programmed for various programmable parameters in the Programming Mode. For this, see 'Operational Details' in the next section.
6. Now, the unit is ready for the Operation.



RS485 Connection



Remote Display Connection (Optional)

Operational Details

The unit, E5000 is a versatile meter with the feature needed to implement with a robust electrical system and can also be configured to suit for most electrical revenue purpose. The unit is achieved by making as many parameters field programmable, as much as possible. There are basically two modes of operation:

1. Programming Mode
2. Run Mode.

After supplying power (**100 VAC to 440 VAC**) to the three phases, the unit comes to Run Mode by default after displaying power receiving information, TESPL such as shown below.



Programming Mode

The unit has various user interface programmable parameters and the Programming Mode can also be easily interfaced by using the keys **PROG**, **UP** and **DOWN**. The unit is designed with a fixed password protection, "1947". The user will therefore enter a password before entering into Programming Mode. Now, in Run Mode, press PROG key for about 5 seconds and then, the password display will prompt such shown below.



To enter the password, press PROG key again that will start blinking first digit as zero and is also showing that the password can be entered. Now, press UP key to set to 1; press PROG key to shift to second digit and enter 9 by pressing UP or DOWN keys. Likewise, enter 4 and 7 also, and then press PROG key to enter into Programming mode. In case, the password entered is wrong, the unit will show Error (ERR) and return into Run mode. Enter again the exact password as steps before.

On other hand, the password prompt will return into Run Mode, unless the password is entered for about **60 seconds**. Or, if the unit is in Programming Mode and keys are not operated for about **60 seconds**, unit will return to Run Mode.

Setting Unit Address

For RS485 communication, the Unit Address can be set from 1 to 255 with an inbuilt and fixed baud rate of 9600.

To set the Unit Address, proceed the following instructions.

1. After entering the password, the unit will enter into Programming Mode and display first programmable parameter, UNIT ADDRESS such as shown below.



2. Press PROG key. Immediately, the parameter will start blinking which shows that the parameters can now be changed. Set the parameter by pressing UP or DOWN keys and press PROG key again to confirm the setting. The parameter blinked will also stop blinking.
3. To set for next parameter, press UP key and set as steps before. Otherwise, press PROG key to return into Run mode or unit will automatically leave the programming mode after 60 seconds if no keys are pressed.

Setting Time and Date with RTC

The Time and Date are RTC where the Time can be set with the format of hour, minutes, seconds i.e., HH-MM-SS and the Date can be set with the format of date, month and year. i.e, DD-MM-YY format.

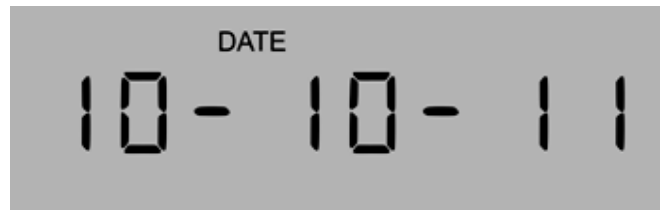
To set Time and Date, proceed the following instructions.

1. After entering the password, the unit will enter into Programming Mode and display first programmable parameter, UNIT ADDRESS. Press UP key till the unit enters into TIME such as shown below.



2. Press PROG key. Immediately, HH will start blinking which shows that the hour can now be changed. It is in 24 Hour format. Set hour by pressing UP or DOWN keys and press PROG key to confirm the setting which will now start blinking to MM. Press UP key or DOWN key to set it, and then press PROG key to confirm the minute setting that will blink to SS. Similarly, set second by pressing UP or DOWN key and press PROG key to confirm the setting which

will now stop blinking. To set DATE, press UP key such as shown below.



3. Now, set DATE as steps before. And press UP key again to set the next parameter. Otherwise, press PROG key to return into Run Mode.

Resetting Energies

The energies KWH, KVAH and KVARH can be reset to zero.

To reset Energies, proceed the following instructions.

1. After entering the password, the unit will enter into Programming Mode and display first programmable parameter, UNIT ADDRESS. Press UP key till Reset Energy displays such as shown below.



2. Press PROG key. Immediately, the parameter will start blinking which shows that the parameters can now be changed. Reset the parameter to YES by pressing UP or DOWN keys and press PROG key again to confirm the setting. The parameter will also stop blinking. After the energy is reset the unit will restart in RUN mode.
3. To set for next parameter, press UP key and set as steps before. Otherwise, press PROG key to return into Run mode.

Resetting Maximum Demand

The Maximum Demand KW, KVA can be reset to zeroes.

To reset Maximum Demand, proceed the following instructions.

1. After entering the password, the unit will enter into Programming Mode and display first programmable parameter, UNIT ADDRESS. Press UP key till MAXIMUM DEMAND displays such as shown below.



2. Press PROG key. Immediately, the parameter will start blinking which shows that the parameters can now be changed. Reset the parameter to YES by pressing UP or DOWN keys and press PROG key again to confirm the setting. The parameter will also stop blinking and immediately the unit will restart in RUN mode.

Setting Weekday for RTC

Weekday can be set from 0 to 6. 0 stands for SUNDAY & 6 stands for SATURDAY. Remaining days are in between 1 to 5.

To set weekday, proceed the following instructions.

1. After entering the password, the unit will enter into Programming Mode and display first programmable parameter, UNIT ADDRESS. Press UP key till the unit enters into DAY such as shown below.







2. Press PROG key. Immediately, the parameter will start blinking which shows that the parameters can now be changed. Set the parameter by pressing UP or DOWN keys and press PROG key again to confirm the setting. The parameter blinked will also stop blinking.
3. To set for next parameter, press UP key and set as steps before. Otherwise, press PROG key to return into Run mode or unit will automatically leave the programming mode after 60 seconds if no keys are pressed.

Run Mode

In the run mode, the various parameters measured/calculated by the meter are TRUE RMS values and displayed on different pages on a customized segment LCD.

The pages auto-scroll by default and also the pages can be scrolled by pressing UP or DOWN keys. For more convenience to analyze the parameters in Run mode pages, the pages can be frozen by pressing **PROG** key. Subsequently, the parameters will start blinking and will not change the current page unless and until pressed by **UP** or **DOWN** keys. To unfreeze the pages, press **PROG** key again that will stop blinking and then, the pages will start auto-scrolling. Each page is displayed for 8 seconds.

Display	Description
	<p>The first page shows Active Energy (KWH). The numeral 1 at the top page shows the energy is for EB.</p>
	<p>The second page shows Active Energy (KWH). The numeral 2 at the top page shows KWH is for DG. When connected to DG, KWH value will show on this page.</p>
	<p>The third page shows Reactive Energy (KVARH). The numeral 1 at the top page shows the unit is for EB.</p>
	<p>The fourth page shows Reactive Energy (KVARH). The numeral 2 at the top page shows the Reactive energy is for DG. When connected to DG, KVARH will display.</p>



The fifth page shows Apparent Energy (KVAH). The numeral 1 at the top page shows KVAH is for EB.



The sixth page shows Apparent Energy (KVAH). The numeral 2 at the top page shows the KVAH is for DG.



The seventh page shows R-Phase Voltage. The numeral 1 at the top page shows the voltage is for R-Phase.



The eighth page shows Y-Phase Voltage. The numeral 2 at the top page shows the voltage is for Y-Phase.



The ninth page shows B-Phase Voltage. The numeral 3 at the top page shows the voltage is for B-Phase.



The tenth page shows R-Phase Current. The numeral 1 at the top page shows the Current is for R-Phase.



The eleventh page shows Y-Phase Current. The numeral 2 at the top page shows the Current is for Y-Phase.



The twelfth page shows B-Phase Current. The numeral 3 at the top page shows the Current is for B-Phase.



The thirteenth page shows R-Phase PF with LAG side. In case, the PF is on LEAD side, - sign will indicate to all three phases and system PF. e.g., -0.999.



The fourteenth page shows Y-Phase PF with LAG side.



The fifteenth page shows B-Phase PF with LAG side.



The sixteenth pages shows system PF with LAG side.



The seventeenth page shows system Frequency (HZ).



The eighteenth page shows system Active Power (KW).



The nineteenth page shows system Reactive power (KVAR).



The twentieth page shows system Apparent power (KVA).



The twenty-first page shows Rising demand of KVA. The rising demand calculation method is based on fixed window method for 30 minutes interval with respect to internal RTC.



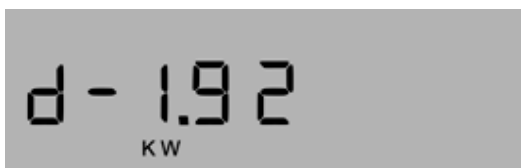
The twenty-second page shows maximum Demand (MD) of KVA. The MD will be logging when Rising Demand is greater than last MD.



The twenty-third page shows the time for maximum demand occurrence of KVA.



The twenty-fourth page shows the date for Maximum Demand occurrence of KVA.

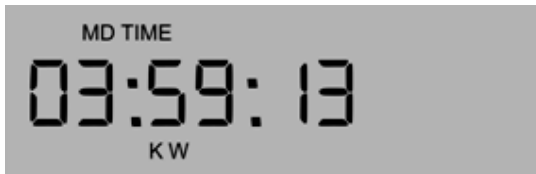


The twenty-fifth page shows Rising Demand of KW.



The twenty-sixth page shows Maximum Demand of KW.

MD occurrence is same as KVA MD occurrence mentioned before.



The twenty-seventh page shows the time for Maximum Demand occurrence of KW.



The twenty-eighth page shows the date for Maximum Demand occurrence of KW.



The twenty-ninth page shows the time in RTC.



The thirtieth page shows the date in RTC.



The thirty-one page shows remaining credit Rs/-.



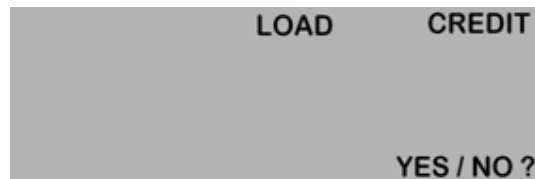
The thirty-second page shows remaining KWh as per remaining credit Rs & defined tariff rate.

Prepaid Function

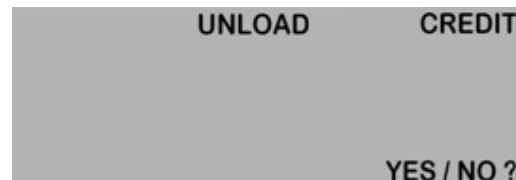
With help of RFID technology & internal latching relay, E5000 provides prepaid functionality. At POS, Vending Software will allocate USER ACTIVE tag to each meter. With help of USER ACTIVE Tag, user can program Credit Rs inside meter. While showing USER ACTIVE Tag in front of meter, E5000 shows following display.



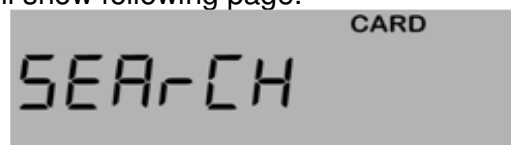
This page shows Credit Rs available inside Tag. Press **UP** key to move further & meter will show following page.



By default “**NO**” option will blink. To recharge meter, press **DOWN** key & make ensure that “**YES**” is blinking & then Press UP key.
To, skip meter recharge, press **UP** key when “**NO**” option is selected. Here, E5000 will provide, Credit Rs unload option as shown in below page.



By default “**NO**” option will blink. To unload money from meter, press **DOWN** key & make ensure that “**YES**” is blinking & then Press UP key.
To, skip unload meter option, press **UP** key when “**NO**” option is selected. Meter will once again show RUN Mode pages.
Either on “**LOAD**” or “**UNLOAD**” pages, on pressing of **UP** key when “**YES**” option selected then meter will show following page.



Here, E5000 will start looking for Tag once again for either LOAD or UNLOAD functionality. Within next 15 seconds, if meter found proper Tag then it will do last transaction successfully otherwise it will show “Err” or “Tag Err” message on screen.

Prepaid functionality will be handled by USER ACTIVE Tag, MASTER Tag & BACKUP Tag.

E5000 support following prepaid functionality:

- 1) USER ACTIVE Tag, MASTER Tag, BACKUP Tag
- 2) Programmable Time zone based tariff for EB (Max - 8)
- 3) Programmable KWh Unit based tariff for EB (Max - 8) with RESET Date
- 4) Fixed Single tariff for DG
- 5) Auto deduction of Monthly Fixed Charges from Available Balance
- 6) Free Credit
- 7) Separate KW based Tripping on EB as well as on DG
- 8) Don't Power Cut Facility on Weekday – Time as well as on fixed dates (max - 30)

USER ACTIVE Tag:

- 1) To load/unload credit Rs inside/from E5000.
- 2) To program Free Credit, KW based tripping on EB/DG & fixed monthly charges.
- 3) Useful to provide, last 12 months energy data from E5000 to Vending software.
- 4) Single Tag can work with single E5000.
- 5) In case of misplaced, Vending software can replace last working tag.

MASTER Tag:

- 1) To load tariff plan inside meter for EB & DG.
- 2) To load Don't Power Cut facility.
- 3) Give Update to Vending Software for meters which are updated with new tariff plan.
- 4) Single Tag can work with multiple E5000.
- 5) In case of misplaced, Vending software can replace last working tag.

BACKUP Tag:

- 1) Provide information to Vending software for any single E5000 to maintain last 12 months energy data.

TIME ZONE Based Tariff:

Vending Software allowed programmable Time Zone facility. It can be maximum 8 or less than that. At Vending Software, administrator can define tariff rate per KWh unit in each time zone.

KWh UNIT Based Tariff:

Vending Software allowed programmable KWh Units facility. It can be maximum 8 or less than that. At Vending Software, administrator can define tariff rate per KWh unit for each defined KWh Units. Internal, KWh counter will be reset on programmed KWh RESET Date in each month.

Vending software also allowed mixed tariff plan by reducing total time zone from 8 to 4.

FIXED SINGLE DG Tariff:

When load is on DG then E5000 will charge as per single DG Tariff.

MONTHLY FIXED Charges:

E5000 will deduct one time monthly fixed charges from available credit Rs on month change event in calendar year.

FREE Credit:

E5000 will allowed consumption even after Credit Rs reach to zero for allowed Free Credit Rs & then after E5000 will trip load.

LOAD Tripping:

E5000 trip load when System KW exceed programmed KW limits for continuous 10 seconds. Meter will again close relay contact after 30 seconds.

DON'T CUT POWER Option:

E5000 will not cut load when Credit Rs reach to zero if don't cut power option is enable. Don't cut power option covers Weekdays, Specific time from Night to Morning as well as fixed dates (max - 30).

Communication

E5000 provide the industry standard RS-485 communication port. These options make it possible for a user to select E5000 to provide power and energy information into a variety of existing or new control systems and communication networks.

Modbus RTU on RS 485 Port

For connection to a PLC/SCADA software, E5000 supports an RS485 port with MODBUS-RTU protocol support. The station id for every meter is site selectable. The data which can be read using MODBUS query # 3 (Read Holding Registers) is provided in an address map. See INDEX in last section.

Communication line parameters: 9600 /8/N/1.

The register map is described in Appendix. If illegal address is sent in query or host try to read more than 240 bytes of data in one query exception response will be generated. The parameter's name and address are also mentioned.

EXCEPTION CODE

In the event that the query from the HOST has no communication error, but there is some error in specifying the address of register to be read, the meter return in exception message. The format of the exception message will be under:

Unit address	83	Exception code	CRC	CRC
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Exception code can have only one value: 02

If the address is not a valid start address or host has requested more than 240 bytes of the data, this code is return.

Appendix

<u>NO.</u>	<u>Address</u>	<u>Parameter</u>	<u>MF</u>	<u>Type</u>
1	200	Voltage-R	1	Float-32Bit
2	202	Voltage-Y	1	
3	204	Voltage-B	1	
4	206	Amps-R	1	
5	208	Amps-Y	1	
6	210	Amps-B	1	
7	212	PF-R	1	
8	214	PF-Y	1	
9	216	PF-B	1	
10	218	Sys.PF	1	
11	220	KVA	1	
12	222	KW	1	
13	224	KVAR	1	
14	226	Hz	1	
15	228	EB-KWh	1	
16	230	EB-KVARh	1	
17	232	EB-KVAh	1	
18	234	DG-KWh	1	
19	236	DG-KVARh	1	
20	238	DG-KVAh	1	
21	240	Demand-KW	1	Unsigned Integer-16Bit
22	242	MD-KW	1	
23	244	MD-KW-Year	1	
24	245	MD-KW-Month	1	
25	246	MD-KW-Date	1	
26	247	MD-KW-Hour	1	
27	248	MD-KW-Minute	1	
28	249	MD-KW-Second	1	
29	250	Demand-KVA	1	Float-32Bit
30	252	MD-KVA	1	Unsigned Integer-16Bit
31	254	MD-KVA-Year	1	
32	255	MD-KVA-Month	1	
33	256	MD-KVA-Date	1	
34	257	MD-KVA-Hour	1	
35	258	MD-KVA-Minute	1	
36	259	MD-KVA-Second	1	
37	260	EB/DG Status	1	
38	261	Year	1	
39	262	Month	1	
40	263	Weekday	1	

41	264	Date	1	Float-32Bit
42	265	Hour	1	
43	266	Minute	1	
44	267	Second	1	
45	268	Total Time Zone Tariff	1	
46	270	TZ1-HH	1	
47	272	TZ1-MM	1	
48	274	TZ1-Tariff	1	
49	276	TZ2-HH	1	
50	278	TZ2-MM	1	
51	280	TZ2-Tariff	1	
52	282	TZ3-HH	1	
53	284	TZ3-MM	1	
54	286	TZ3-Tariff	1	
55	288	TZ4-HH	1	
56	290	TZ4-MM	1	
57	292	TZ4-Tariff	1	
58	294	TZ5-HH	1	
59	296	TZ5-MM	1	
60	298	TZ5-Tariff	1	
61	300	TZ6-HH	1	
62	302	TZ6-MM	1	
63	304	TZ6-Tariff	1	
64	306	TZ7-HH	1	
65	308	TZ7-MM	1	
66	310	TZ7-Tariff	1	
67	312	TZ8-HH	1	
68	314	TZ8-MM	1	
69	316	TZ8-Tariff	1	
70	318	Total KWh Tariff	1	
71	320	KWh Count Reset Date	1	
72	322	KWH1-Units	1	
73	324	KWH1-Tariff	1	
74	326	KWH2-Units	1	
75	328	KWH2-Tariff	1	
76	330	KWH3-Units	1	
77	332	KWH3-Tariff	1	
78	334	KWH4-Units	1	
79	336	KWH4-Tariff	1	
80	338	KWH5-Units	1	
81	340	KWH5-Tariff	1	
82	342	KWH6-Units	1	
83	344	KWH6-Tariff	1	
84	346	KWH7-Units	1	
85	348	KWH7-Tariff	1	

86	350	KWH8-Units	1	
87	352	KWH8-Tariff	1	
88	354	Tariff-Version	1	
89	356	Maintance Charge	1	
90	358	Recharge Rs/-	1	
91	360	Free Credit	1	
92	362	DG Tariff	1	
93	364	EB-KW Trip Enable	1	
94	366	EB-KW Trip Limit	1	
95	368	DG-KW Trip Enable	1	
96	370	DG-KW Trip Limit	1	
97	372	DCD[SUN,MON]	1	
98	373	DCD[TUE,WED]	1	
99	374	DCD[THR,FRI]	1	
100	375	DCD[SAT,0]	1	
101	376	No. Of Don't Cut Dates	1	
102	377	1st Date-Month	1	
103	378	2nd Date-Month	1	
104	379	3rd Date-Month	1	
105	380	4th Date-Month	1	
106	381	5th Date-Month	1	
107	382	6th Date-Month	1	
108	383	7th Date-Month	1	
109	384	8th Date-Month	1	
110	385	9th Date-Month	1	
111	386	10th Date-Month	1	
112	387	11th Date-Month	1	
113	388	12th Date-Month	1	
114	389	13th Date-Month	1	
115	390	14th Date-Month	1	
116	391	15th Date-Month	1	
117	392	16th Date-Month	1	
118	393	17th Date-Month	1	
119	394	18th Date-Month	1	
120	395	19th Date-Month	1	
121	396	20th Date-Month	1	
122	397	21st Date-Month	1	
123	398	22nd Date-Month	1	
124	399	23rd Date-Month	1	
125	400	24th Date-Month	1	
126	401	25th Date-Month	1	
127	402	26th Date-Month	1	
128	403	27th Date-Month	1	
129	404	28th Date-Month	1	
130	405	29th Date-Month	1	

Unsigned
Integer-
16Bit

131	406	30th Date-Month	1
132	407	Don't Cut Time Enable	1
133	408	Hr-PM	1
134	409	Hr-AM	1
135	410	Tripping	1