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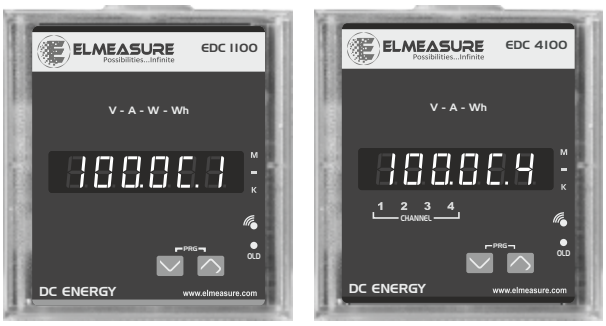

PROGRAMMING GUIDE
EDC 1 Row

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1. FEATURES

- Universal Auxiliary (80-300V AC/DC) supply.
- OLD' register to store the previously cleared energy value.
- Voltage full scale programmable
- User configurable (Editable) password.
- Simultaneous sampling of Volts & Amps.
- Universal Voltage Input (Upto 800V DC) and Current (75mV).
- Current full scale programmable independently.

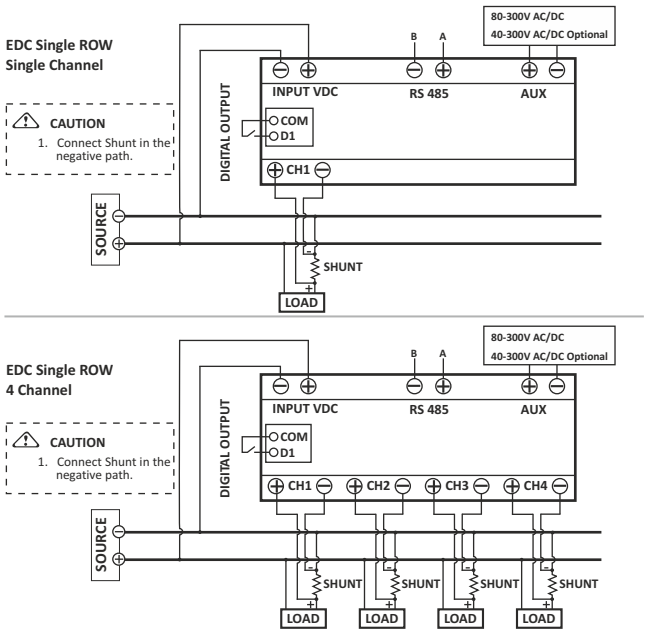
2. UNIQUE FEATURES

- 1 row 6 digit displays on each row for better readability
- Optional Programmable relay output maximum 1 (up to 10 threshold parameters) and tripping time up to 180 seconds.
- Auto-scaling of kilo & mega decimal point.
- Energy display programmable-counter based or resolution based. Energy resetting at 999999K X multiplication factor.
- Parameters (V, A, W and Wh).

3. KEY FUNCTIONS

Key	In SET (Programming) mode	In RUN (Measurement) mode
Right/UP	To select the value and accept the value (it act as a Right key in programming mode)	To scroll pages to look at different parameters.
DOWN	To edit the value/system type down-ward in edit mode and scroll through the parameters.	To scroll pages to look at different parameters

4. WIRING DIAGRAM - EDC



5. ENTERING CONFIGURATION (SETUP) MODE

Step	Actions	Display Reads	Range/Options/Comments
1	Press RIGHT & DOWN keys together to enter SETUP	0000 with first digit "0" blinking.	
2	Press DOWN key to decrement the first digit to "9" sequentially come to digit "1	1000 with first digit "1" blinking.	If any other password is already set, press RIGHT and DOWN keys to reach the right password
3	Press RIGHT key four times to accept the password.	CLr	Defines the clearing option for the meter.
Press DOWN key for SETUP Mode Press RIGHT key for CLEAR Mode			
CLEAR Mode			
4	Press RIGHT key	CLr n Display CLr " n"Options can be changed by pressing DOWN key. Display will prompt to 'y' or 'n' while pressing DOWN key.	Option : Y = YES (for clearing the energy) N = NO (for not clearing the energy)
5	Press RIGHT key to accept the edited option.	0.000 U	Displays XXXX V (Clear Mode ends here)
SETUP Mode			
6	Press Down key	PPr1 (PT Primary)	
7	Press RIGHT key to view the PT primary value	48.00 48.00 -default/factory set	Range:0.100 to 999.9kV
8	Press RIGHT key to set the value	48.00 First digit blinking can be edited using DOWN key.	
9	Press RIGHT key to accept the edited value for first digit.	48.00 Second digit blinking, can be edited using DOWN key. Press RIGHT key to accept the edited value. Continue the same method till fourth digit.	
10	Press RIGHT key to accept the value.	48.00 Decimal point blinking. Can be set at appropriate location using DOWN key. Ascertain the correct scale (Kilo) is selected. Kilo is placed on the right hand side of the display by Letter K. Press RIGHT key to accept the edited value.	Eg: To set 11.00kV Set first four digits (1100) as explained above. Keep pressing DOWN key to place decimal point at appropriate location
11	Press DOWN key	C.1.FS C.1.FS (Channel 1 Full scale).	
12	Press RIGHT key to view the C.1.FS value	75.00 75.00 -default/factory set Follow steps 8 - 10 to change the settings	Range: 0.100 to 999.9KA
13	Press DOWN key	C.1.SH	Current channel 1 Shunt value.
14	Press RIGHT key to view the C.1.SV value	75.00 default / factory set Follow steps 8 - 10 to change the settings	Range: 50mV to 75mV.

15[1]	Press DOWN key	C.2.F.S.	Channel 2 Full scale.
16[1]	Press RIGHT key to view the C.2.FS value	75.00 default /factory set Follow steps 8 - 10 to change the settings	Range: 0.100 to 999.9KA
17[1]	Press DOWN key	C.2.S.U.	Current channel 2 Shunt value.
18[1]	Press RIGHT key to view the C.2.SV value	75.00 default /factory set Follow steps 8 - 10 to change the settings	Range: 50mV to 75mV.
19[1]	Press DOWN key	C.3.F.S.	Channel 3 Full scale.
20[1]	Press RIGHT key to view the C.3.FS value	75.00 default /factory set Follow steps 8 - 10 to change the settings	Range: 0.100 to 999.9KA
21[1]	Press DOWN key	C.3.S.U.	Current channel 3Shunt value.
22[1]	Press RIGHT key to view the C.3.SV value	75.00 default /factory set Follow steps 8 - 10 to change the settings	Range: 50mV to 75mV.
23[1]	Press DOWN key	C.4.F.S.	Channel 4 Full scale.
24[1]	Press RIGHT key to view the C.4.FS value	75.00 default /factory set Follow steps 8 - 10 to change the settings	Range: 0.100 to 999.9KA
25[1]	Press DOWN key	C.4.S.U.	Current channel 4Shunt value.

41	Press DOWN key	PWd (Password user definable). CAUTION: memorize the Password. Use the same Password for next time. Instruments will reject other Passwords. Follow steps 8 to 10 to change the pass word.	Range: 1000-9999.
42	Press RIGHT key to viewthe password	1000	CAUTION: Password can be reset only at the factory.
43	Press DOWN key	EnEr	Energy value format i.e., the energy accumulated in the meter to be displayed in resolution (default) or counter format.
44	Press RIGHT key to view the option	rESL	Comment: Can change the option using RIGHT & DOWN keys. CAUTION: in counter mode energy accumulation is visible depending on load.
45	Press DOWN key	SAUE S A V E "Y" blinking.	If "n"(no) is selected then Meter enters into RUN mode without affecting any edited Values in the setup
46	Press RIGHT key to store the changes done	0.000 U Display returns to Run mode.	

Once the required parameter is programmed press the DOWN key continuously till it reaches SAVE page directly. Note: Steps 15[1], 16[1], 17[1], 18[1], 19[1], 20[1], 21[1], 22[1], 23[1], 24[1], 25[1] and 26[1] not applicable for EDC1100 model.

26[1]	Press RIGHT key to view the C.4.SV value	75.00 default /factory set Follow steps 8 - 10 to change the settings	Range: 50mV to 75mV.
27	Press DOWN key	rEUL (Reverse lock)	If Yes (blocks energy accumulation incase the CT polarity is reversed) Option: NO/YES Comment: Can change the option using RIGHT & DOWN keys.
28	Press DOWN key	dO.1P (Defines Digital output 1)	
29	Press RIGHT key to view options	dSbL (Disable)	Options: dSbL / Un.A4(Under Current in Channel 4) /OU.A4 (Over Current in Channel 4) / Un.A3 / OU.A3 / Un.A2 / OU.A2 / Un.A1 / OU.A1 / Un.U (Under Voltage) / OU.U (Over Voltage)
30	Press RIGHT key once again to change options	dSbL The options can be changed by pressing DOWN key, Press RIGHT key to accept the edited options	
31	Press DOWN key	dO.1t.	Defines the threshold limit Range: 1.000 to 999.9K
32	Press the RIGHT Key to view the value	60.00 (Default threshold value)	Comment: Can change the option using RIGHT & DOWN keys.

6. The List of parameters can be configured and the range is given below

Sl.No.	Parameter	Default setup	Range / Options
1	PT Primary (P.Pr1)	48.00	0.100 to 999.9KV
2	Channel 1 Full Scale(C.1.FS)	75.00	0.100 to 999.9KA
3	Channel 1 Shunt Value(C.1.S.V)	75.00	50mV to 75mV
4	Channel 2 Full Scale(C.2.FS)	75.00	0.100 to 999.9KA
5	Channel 2 Shunt Value (C.2.S.V)	75.00	50mV to 75mV
6	Channel 3 Full Scale(C.3.FS)	75.00	0.100 to 999.9KA
7	Channel 3 Shunt Value (C.3.S.V)	75.00	50mV to 75mV
8	Channel 4 Full Scale(C.4.FS)	75.00	0.100 to 999.9KA
9	Channel 4 Shunt Value (C.4.S.V)	75.00	50mV to 75mV
10	REV.L(Reverse Lock)	NO	NO/YES
11	1st Digital Output parameter(dO.1.P)	dSbL	Over V, A1,A2,A3,A4, Under V, A1,A2,A3,A4
12	1st Digital Output threshold Value (dO.1.t)	60.00	1.000 to 999.9K
13	Digital Delay	3.000	1 to 180 Sec
14	Baud rate (bAUd)	9600	1200 to 19.2k
15	Parity (Prty)	Even	Even/ Odd/ no
16	Device Id (dEV.Id)	1.000	1.000 to 247.0
17	Password (PWd)	1000	1000 to 9999
18	EnEr (Energy)	rESL	rESL /COUП

33	Press DOWN key	d.dEL (Digital Delay)	
34	Press RIGHT Key to view the value	3.000 (Default)	Range: 1.000 to 180.0 Sec Can change the option using Right and Down Keys
35	Press DOWN key	bAUd (baud rate) communication speed.	Defines the baud rate.
36	Press RIGHT key to view the option	9600 (default /factory set)	Option : 9600,4800 19.20k (9600 recommended) Comment: Can change the option using RIGHT & DOWN keys.
37	Press DOWN key	PrtY	Internal communication error check
38	Press RIGHT key to view the option	EUEn (default /factory set)	EUEn (even) / no (no parity) / odd(odd) Comment: Can change the option using RIGHT & DOWN keys.
39	Press DOWN key	dU.I d. (device ID)	Defines the (ID) communications
40	Press RIGHT key to view the value	1.000	Identification number Range. 1 to 247 Comment: Can change the option using RIGHT & DOWN keys.

7. Enabling and disabling of Auto scrolling:

Enabling auto scrolling: Press UP key continuously for 5 seconds or until display shows EnbL for upward scrolling. Press Down key continuously for 5 seconds or until display shows EnbL for downward scrolling.

Disabling auto scrolling: Press any key (UP/DOWN), display show dSbL and returns to normal mode.

8. LED INDICATION

LED Status	EDC 4100 Meaning
1- ON	Channel 1 Values
2 - ON	Channel 2 Values
3 - ON	Channel 3 Values
4 - ON	Channel 4 Values
K - ON	Kilo

LED Status	EDC 4100 Meaning
M - ON	Mega
- ON	Minus/Reverse
OLD - ON	Cleared Values
- Blinks	Communication ON

9. Mechanical Specification:

Dimension Bezel:
96 x 96 mm (Depth 50mm behind Bezel)

Panel Cutout:
90^{+2}_{-0} x 90^{+2}_{-0} mm