

## Elecon Measurements

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## PROGRAMMING GUIDE GEN DUOS

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### 1. FEATURES

- True RMS measurement
- STAR (Wye)/ DELTA/1 Phase Programmable
- PT ratio / CT ratio programmable
- PT/CT ratio programmed for display is applicable for counter also
- Universal Auxiliary (80 -300 VAC/DC) supply
- Universal Voltage Input (80 - 550 VAC) and Current Secondary (0.5 to 6A).
- Clearance & Creepage distance meets UL61010 standard
- Compact size and light weight

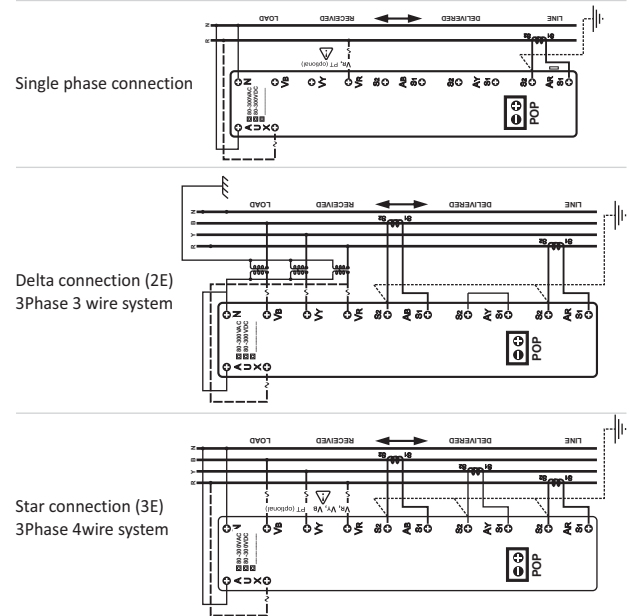
### 2. UNIQUE FEATURES

- 6 digit mechanical counter for better readability (kwh)
- 1Row 4digit display readability
- Parameters (VLL, VLN, A, F) and ON Hours
- Auto-scaling of kilo, mega, giga & decimal point

### 3. KEY FUNCTIONS

Key	In SET (Programming) mode	In RUN (Measurement) mode
Right/UP 	To select the value for editing and accept the value after editing	To scroll pages to look at different parameters in Upward direction.
DOWN 	To edit the value/system type downward in edit mode and scroll through the parameters.	To scroll pages to look at different parameters in Downwards direction.

### 4. WIRING DIAGRAM - GEN DUOS



## 5. ENTERING CONFIGURATION (SETUP) MODE

To configure the setup parameters through front panel, the following steps can be followed.

Step	Actions	Display Reads	Range/Options/Comments
1	Press UP & DOWN keys together to enter programming mode	0000 first digit "0" blinking	
2	Press DOWN key to decrement the first digit to "9" sequentially come to digit 1.	1000 first digit "1" blinking (default/factory set).	If any other password is already set move UP and DOWN key to reach the right password
3	Press UP key four times to accept the password.	ELEM (ELEMENT)	Defines the power system configuration. Options: STAR /DELTA/ SINGLE PHASE
4	Press the UP/ Right key	SELR	STAR means STAR system Meter would Display the last set up value /system.
5	Press the UP/Right key	SELR blinking.	
6	Press the down key	SELR	Options: STAR, dELT, 1Ph. [Selected option is Displayed]
7	Press the UP/Right key to set the system type required.	Blinking stops. Displays steady system type.	
8	Press down key to go to next page	PPr1	PT Primary
9	Press UP/Right key to set the PT primary value	4150	Program Range for PT Primary : 100V to 999kV

10	Press UP/right key to edit value	4150	First digit blinks. Value of this digit can be edited.
11	Press DOWN key to change	4150	Changed digit blinks.
12	Press UP/Right key to accept	4150	Blinking digit stabilizes..
13	Press DOWN key	4150 Decimal point blinks	Set kilo while setting decimal point. Eg: To set 11.00kV set 4 digits (1100) as explained above. Press DOWN key to decimal point while Kilo LED comes ON.
14	Press DOWN key to go to next page	P5EC	PT Secondary
15	Press UP/Right key to edit value	4150	PT Secondary. Follow the procedure as per SL no 9 to 13
16	Press DOWN key to go to next page	CPr1	CT.Primary. Follow the procedure as per SL no 9 to 13
17	Press UP/Right key to set the CT primary value	5000	Range: 0.5A to 99KA.
18	Press UP/right key to edit value	5000	Editable digit blinks.
19	Press DOWN key to change	5000	Changed digit blinks.
20	Press up/Right key to accept	5000	Blinking digit stabilizes

21	Press DOWN key	5000	Decimal point blinks	Set kilo while setting decimal point. Eg: To set 10.00kA set 4 digits (1000) as explained above. Press DOWN key to decimal point while Kilo LED comes ON.
22	Press DOWN key to go to next page	C5EC		CT-Secondary.
23	Press UP/Right key to edit value	5000		Range: 0.5A to 6A. Follow the procedure as per SL no 9 to 11
24	Press DOWN key to go to next page	r.L.U.L		Reveres Lock option: NO/YES. If yes blocks energy accumulation in case the CT polarity reverses.
25	Press DOWN key to go to next page	POPt		Pop pulse on time
26	Press UP/Right key to edit value	2500		Range: 50 to 250mSec. Select the required value. Follow the procedure as per SLno9 to 11
27	Press DOWN key to go to next page	5000		To save the setting mode. Option Y (YES)/n(NO).
28	Press UP/Right key to memorize the changes done.		Display returns home page	

Once the required parameter is programmed, press the DOWN key continuously till it reaches SAVE page.

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

Sl.No.	Parameter	Default setup	Range / Options
1	Connection mode(ELEM)	STAR	STAR/ DELTA/ 1.Phase
2	PT Primary (P.Pri)	415.0	100V- 999kV
3	PT Secondary (P. SEC)	415.0	50V - 550V
4	CT Primary (C.Pri)	5.000	0.5A - 99kA
5	CT Secondary (C. SEC)	5.000	0.5A - 6A
6	Reveres Lock (r.L.U.L)	no	Yes/no
7	POP:t	250.0	50ms - 500ms

## 7. LED INDICATIONS

LED status	Meaning	LED status	Meaning
Kilo - OFF	Direct reading	Hz - ON	Frequency
Kilo - ON	Kilo	R - ON	R Phase
VLL - ON	Voltage line to line	Y - ON	Y Phase
VLN - ON	Voltage line to Neutral	B - ON	B Phase
A - ON	Amps	┌┐┌ - ON	Pulse Output

## 8. 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 shows **dSBL**. and returns to normal mode.