**Introduction**

The P160 Customer Interface Unit is your personal interface to the E460 meter, which is typically locked in a secure utility kiosk outside your home. The Customer Interface Unit communicates with the meter via the existing mains cables between your house and the meter kiosk outside.

The Customer Interface Unit (also referred to as a CIU), must always be fitted to an electrical outlet in your home and the switch of the outlet should always be ON in order to power the CIU for normal operation.

The CIU is fitted with a 9V Alkaline battery which is necessary to operate the CIU if the meter has disconnected power to your house - you may wake up the CIU by pressing the ENTER/Power ON key to check the status of your meter or to enter a new prepayment credit token (if in prepayment mode).

The E460 meter may be configured as a smart or prepayment meter. In the smart mode, the E460S supports both post-payment mode (meter automatically read and billed) or prepayment (where you buy prepayment tokens. Supported by audible tones.

To activate emergency credit (if available) press the 2ndF + Key 5/E-Credit (Emergency Credit) or OFF and then press ENTER to save selection.

**How to use your P160 Customer Interface Unit**

For general queries about electricity services please always contact your electricity utility

For further technical information about how to use your P160 Customer Interface Unit, please send your questions to: techinfo.za@landisgyr.com

**PLUGGABLE EQUIPMENT**

THE SOCKET-OUTLET MUST BE INSTALLED NEAR THE EQUIPMENT AND MUST BE EASILY ACCESSIBLE

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**Display Overview**

1) Lock icon: When on, the keypad is locked out
2) Credit wedge: Prepayment credit remaining
3) Meter load switch indicator: Shows switch state
4) Cross and tick: Acceptance or rejection of prepayment tokens. Supported by audible tones
5) CIU battery strength indicator: Replace the battery when flat - this to ensure correct operation of your customer interface unit (CIU).
6) Energy direction indicators: +P icon is displayed for import power. -P energy indicator will show net export power (e.g. solar generated power)
7) Alarm Indicator: If flashing, the meter or CIU may have a fault or alarm. If the battery indicator is flashing with alarm icon - check or replace battery
8) Index field: Displays the selected info register selected of the default display, e.g. 15.8.0 in the index field indicates TOTAL ENERGY
9) Value field: Displays the value of the meter register (e.g. total energy register or remaining credit register
10) Arrow Indicators: These indicators provide a visual indication of the status of some parameters of the meter. Arrow 1 is Rate 1 (typically peak) and Arrow 2 is Rate 2 (typically off-peak)
11) Coin Stack: Displayed when your remaining prepayment credit is in Currency value
12) Units Indicator: Provides information about the number in the VALUE field. For example if the display reading is power, then the units indicator will show ‘W’ for Watts.

**Prepayment Mode Displays**

**Prepayment Token Acceptance**

When the prepayment token has been accepted, the tick icon will flash, the credit wedge will scroll upwards and the CIU will play an audible token accept melody.

**Prepayment Token Rejection**

When the prepayment token has been rejected, the cross icon will flash and the CIU will sound an audible token reject tone.

**Prepayment Token Duplicate**

When the prepayment token has been previously used i.e. a duplicate token, the cross and tick icons will flash simultaneously, accompanied by an audible token reject tone.

Try and use the prepayment token as soon as possible and don’t store it for more than a month or two, otherwise it may be possible that your token will expire, will become unusable and will be rejected by the meter.

**Prepayment Token Expired**

When the prepayment token has been previously used i.e. a duplicate token, the cross and tick icons will flash simultaneously, accompanied by an audible token reject tone.

**Remaining Prepayment Credit**

**How much prepayment credit do I have left?**

**Credit high**

Plenty of prepayment electricity credit left.

**Credit low**

Credit low. Purchase additional credit, or power to the house will be disconnected.

Note: If enabled an audible alert will sound.

**Emergency Credit Audible**

(Confirm with your utility if this is enabled) To enable, press 2ndF key and then key 5/E-Credit.

**Emergency Credit activated**

Emergency credit selected (2ndF+E) and added to the previous account balance

**No credit left**

Electricity disconnected. Buy more prepayment electricity and enter token

**CIU Membrane Overview**

Keys 1 thru 0 are used to enter prepayment tokens or for the desired information register. The use of the 2ndF key provides smart functionality by selecting the keys with black function markings. When pressing 2ndF on the keypad, it is confirmed on the display index field. Press desired function, or press 2ndF again to exit the menu.

Information Key: For accessing information registers, press Info key followed by register and then press ENTER key. Press information key again to exit menu

Enter Key / Power ON: Used to complete function requests and for power ON under battery conditions

Del/Esc Key: For backspace when entering info register number or for backspace or corrections when entering prepayment tokens.

Special 2ndF functionality options

2ndF + Key 2/Alarm: To enable or disable the audible low credit alarm. Use scroll up to select ON or OFF and then press ENTER to save selection.

2ndF + Key 5/E-Credit (Emergency Credit) To activate emergency credit (if available) press the 2ndF + Key 5/E-Credit

2ndF + Key 6/Tariff: To read the applicable Rates & Tariffs. The rate or tariffs will be displayed with the name and activation time in the index field. Use the scroll up and down to see activation start times. Rate 1 is typically peak and rate 2 is typically off-peak - confirm with your utility.
Enter Information Mode

Press Enter register number, then press ENTER KEY

To access next meter register, press SCROLL up or down keys to next desired register and press ENTER key.

Enter Information Mode

Press Enter register number, then press ENTER KEY

The display could be in Energy Value (kWh) or Currency (AUD) format. The display shows a coin stack.

In case you are uncertain which of your prepayment tokens are used, you can cross check the last 25 tokens using from the network (also known as Export Energy)

Enter Information Mode

Press Enter register number, then press ENTER KEY

This multi-coloured LED indicator flashes to alert you to various CIU alarm conditions:

- Red: Low prepayment credit
- Yellow: Medium levels
- Green: High levels

This is applicable if you have used Emergency Credit. Your smart meter could be in prepayment or post-payment mode - check display information to confirm.

Enter Information Mode

Press Enter register number, then press ENTER KEY

In prepayment mode, the colour of the light changes according to your available credit - this is a useful visual indication of remaining credit.

Enter Information Mode

Press Enter register number, then press ENTER KEY

This is the accumulated energy register for energy you are using from the network (also known as Import Energy)

Enter Information Mode

Press Enter register number, then press ENTER KEY

This displays how much power you can use at any time, before the meter will switch off power to your house. The initial disconnect time is 30 sec. Switch off some appliances to prevent further disconnections - if your load is not reduced and you experience more than after 5 x 30 sec disconnects, the next disconnect time is 30 minutes.

Enter Information Mode

Press Enter register number, then press ENTER KEY

This is the TOTAL accumulated energy register for both import and export energy.

Enter Information Mode

Press Enter register number, then press ENTER KEY

This is the TOTAL accumulated energy register for both import and export energy.

Scroll Key

Used for selection of some menu items or scrolling up and down through registers.

2nd F Key

The second function key enables access to various smart features on the keypad - applies to keys marked with black 2nd F Key functions.

Enter Key

When selecting a register in the information mode, press enter to execute the request.

In prepayment mode, it will show the cost per kWh of that tariff according to your available credit - this is a useful visual indication of remaining credit.

Over view:

- Red flash: Low prepayment credit
- Yellow flash: Medium credit levels
- Green flash: High credit levels

Alert Indicator

This is the TOTAL accumulated energy register for both import and export energy.