

Manufactured by:

Landis  
Gyr+  
manage energy better

# E460

## Smart Prepayment Meter



The E460 smart prepayment meter solution is designed for open standard prepayment and smart metering communication needs. The portfolio includes advanced, single phase (DIN Rail and BS) and three phase, multi-function, STS keypad based, PLC smart prepayment meter solutions.

The metering solution consists of the E460 smart prepayment meter and the P160 Customer Interface Unit.

The E460 meter can be configured to operate as a stand-alone split prepayment meter solution, or as part of an end to end smart prepayment AMI solution, comprising of meters, concentrators, remote data acquisition and data evaluation systems at a central station; all based on field-proven Landis+Gyr technology.

20 Years  
1995-2015  
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## OPEN SMART PREPAYMENT METER SOLUTION

Our new generation E460 smart prepayment meter solution is rich in functionality and offers maximum flexibility. Specifically designed to work with open standards for prepayment, smart metering and communications, it provides a future-proof solution that protects your metering investment.

## FEATURES

Landis+Gyr's E460 meter solution is the answer to advanced smart prepayment metering needs.

### FEATURES

- Open industry standard, G3 OFDM PLC technology for bi-directional communications between the E460 meter, the P160 Customer Interface Unit and the Data Concentrator
- Split metering solution, which typically consists of two parts; the E460 meter and the P160 Customer Interface Unit
- Communication between the meter and the Customer Interface Unit is by means of PLC using existing household wiring; no additional communication wires are required
- The P160 Customer Interface Unit is typically installed in the consumer's home wherever there is a suitable electrical socket outlet
- Changeable metering modes kWh transfer STS Prepayment, Smart Prepayment with TOU, STS Currency token transfer TOU and Post-payment
- Real Time Clock and Time of Use – enabled in the on-line smart prepay and post-pay configuration modes
- Extensive e-metering load switch control functions including demand and fuse supervision and power-limit capabilities
- Event trigger and fraud logs
- Various configurable load switch disconnect options as well as remote disconnect and reconnect in the on-line mode

### OPEN INTERNATIONAL STANDARDS

- STS prepayment standard (IEC62055-41/51)
- Interoperable IDIS standard
- DLMS / COSEM Communication protocols
- G3 OFDM Power Line Carrier communications



## E460 SMART PREPAYMENT METER PORTFOLIO

Family includes a range of smart prepayment meters

- 1 phase DIN Rail, with bottom connect terminals
- 1 phase British Standard (BS)
- 3 phase with asymmetrical terminal format

Meters typically used with the P160 PLC Customer Interface Unit

Integrated narrowband G3 OFDM PLC communications

In the smart meter configuration, when the meter is part of an end-to-end AMI system, the E460 supports extensive and powerful e-metering and prepayment functionality

E460 (MCA 110 xRx)

E460 (MCA 110 xBx)

E460 (MMA 310 xAx)

		E460 (MCA 110 xRx)	E460 (MCA 110 xBx)	E460 (MMA 310 xAx)
<b>Meter Modes</b>	Prepayment kWh STS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Prepayment Currency STS (TOU)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Post Payment (Smart Credit Meter)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Network Type</b>	1-phase, 2 wire	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	3-phase 4-wire	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Connection Type</b>	Direct connect	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Accuracy Class</b>	Class 1 (IEC) standard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Class 2 (IEC)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Measured Quantity</b>	Active energy only	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Combination (Active & Reactive)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Meter Housing Construction</b>	1ph, DIN Rail (bottom connect)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	1ph, BS Type	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	3ph, Asymmetrical	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Current Rating</b>	$I_b; I_{ref} = 5 \text{ A}$	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	$I_b; I_{ref} = 10 \text{ A}$	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	$I_{max} = 80 \text{ A}$	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	$I_{max} = 100 \text{ A}$	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>System Communications</b>	Narrowband G3 OFDM PLC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Load Switch Options</b>	1 pole, UC2 and UC3 rating options	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	3 pole, UC3 rating	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Note: Please refer to the Technical Specification Sheet for more detailed type number information

## HIGHLIGHTS

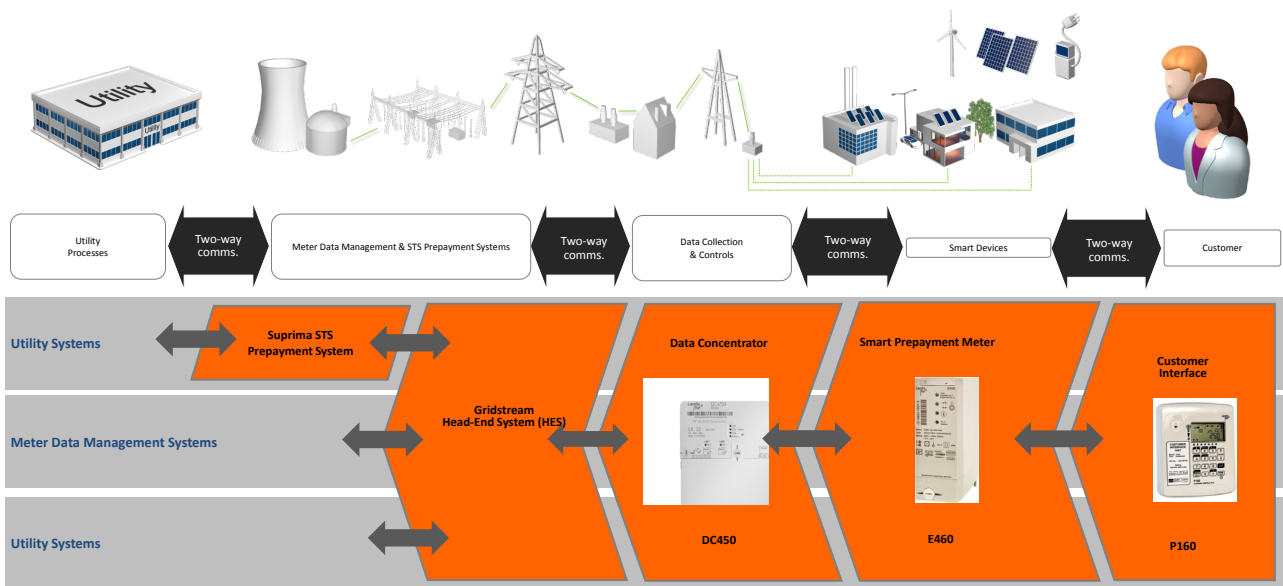
Building on its tradition of STS keypad prepayment meters, Landis+Gyr South Africa is now launching the E460 series, the latest generation of STS smart prepayment meters.

The new E460 solution is based on the existing and proven Landis+Gyr smart meter platform and incorporates STS prepayment capability.

Landis+Gyr's E460 meter solution provides a future-proof investment by offering open STS prepayment, interoperable and open IDIS, DLMS / COSEM and G3 PLC metering and communication standards.

It is the solution for your next generation smart prepayment investment.

## END TO END SOLUTION OFFERING



## Efficient Electricity Solutions

PPI is a company with more than twenty (20) years of successful operation in the Philippines.

Over the years, it has developed and actively supplied an extensive and full power line of products and services from the best manufacturers in Europe. Among its most sought top of the line products are: Turnkey projects in the supply of substations with rated voltage of up to 230kV, electricity meters, meter test equipment, instrument transformers, power transformers, disconnectors, fault indicators, surge arresters, switchgears, oil testers, cable diagnostics, batteries, harmonic filters, and automation systems, among others.

Our commitment to establish closer customer relationships make us understand your business needs and power solution requirements.

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