

# КАТАЛОГ

на оборудование XILI

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## UNP112 Single Phase Smart Meter

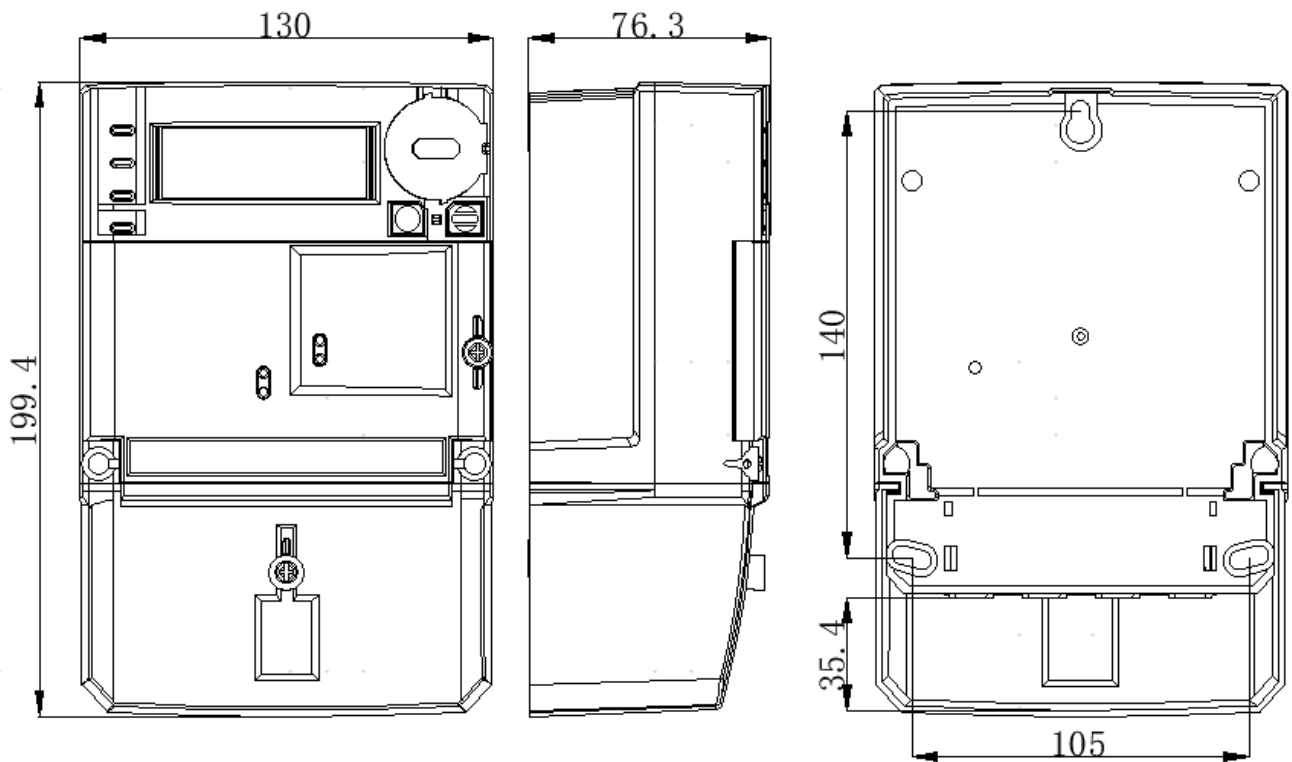
UNP112 single phase two wire BS type meter is capable of STS based prepayment functionality, two-way communication with back office with various communication technology, load control with internal latching relay.

### Features Technical Parameter Product Size Chart

- Compliance with IEC standards (IEC 62052-11, IEC 62053-21, and IEC 62053-23 )
- Compliance with Interoperability standards such as G3-PLC, BPLC, DLMS/COSEM , IDIS2, STS2
- Secured communication channels and encrypted data exchange with DLMS/COSEM security suites 0/1
- Dual plug and play modules application, capable of G3-PLC / BPLC / Wi-Sun RF / 2G / 3G / 4G/CAT.1
- Terminal holes and screws with anti-dropping design
- Measurement of TOU, billing, profile, four quadrant energy & power, instantaneous values.
- Disconnect/reconnect with latching relay
- Remote/local upgrade

<b>Nominal Voltage</b>	230V
<b>Voltage Range</b>	0.5Un~1.3Un
<b>Current</b>	5(100)A
<b>Frequency</b>	50Hz / 60Hz
<b>Accuracy Class</b>	Active Energy: CL 1.0 1000 imp/kWh Reactive Energy: CL 2.0 1000 imp/kvarh

<b>Standard</b>	Fully compliant with IEC 62052-11, IEC 62053-21 , IEC 62053-23 (mechanical, climatic, electrical, electromechanical and metrological)
<b>Real-time Clock Accuracy</b>	<3min/Year or <0.5s/Day
<b>Environment</b>	Temperature Range: -25°C ~ +75 °C Humidity: Up to 95%
<b>Ingress Protection</b>	IP54
<b>Communication Interface</b>	Optical port (IEC 62056-21) Optional RS232 and/or RS485 DLMS/COSEM Protocol (IEC 62056)
<b>Liquid Crystal Display</b>	





## XLE12 Type 100 Single Phase Electronic Electricity Meter

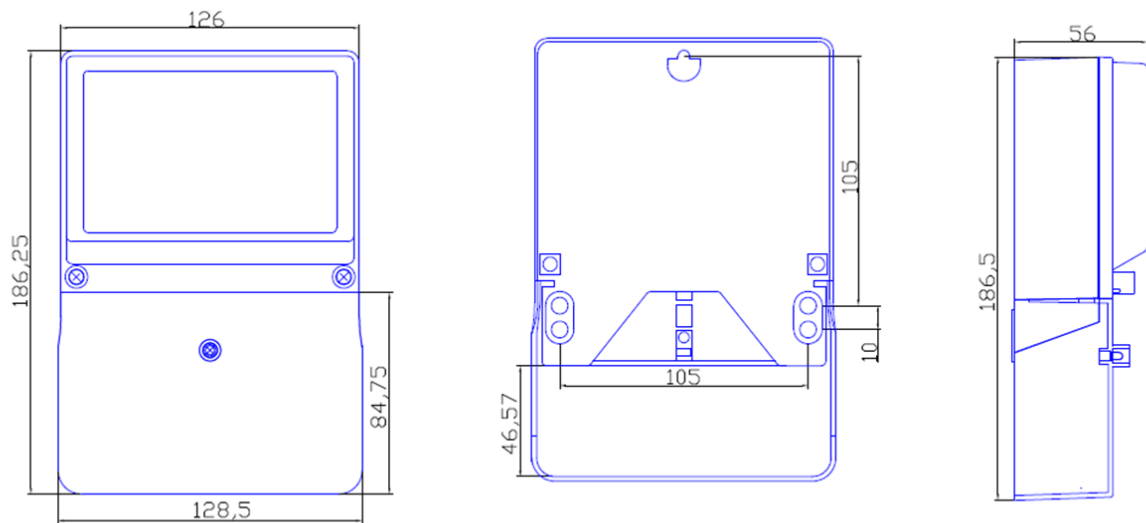
The XLE12 Type100 combines modern metering technology with a proven electromechanical drum register for outstanding performance over a long life. Specifically designed to provide cost-effective, entry-level functionality for customer revenue metering in markets for both symmetrical (BS, UTE) and asymmetrical (DIN) connection standards.

### Features Technical Parameter Product Size Chart

- Class 1 or 2 accuracy
- Single rate drum, 5+1 digit (10Wh) resolution register
- 110-120V or 220-240V 50-60Hz reference voltage/frequency
- 5A, 10A, 15A, 20A basic current
- 60A, 100A maximum current
- Forward and reverse energy shown by a single LED

<b>Type</b>	Single-phase 2-wire, direct connected energy meter
<b>Reference voltage (Un)</b>	230 Volts AC (other voltages available on request)
<b>Reference Frequency (Fr)</b>	50 Hz or 60 Hz
<b>Extended Operating voltage range</b>	80%-115% Un
<b>Basic Current (Ib)</b>	5A, 10A
<b>Maximum Current (Imax)</b>	Up to 100A
<b>Short-circuit≤10 ms</b>	30 I <sub>max</sub>
<b>Measuring Accuracy</b>	Class 1

<b>Starting current</b>	0.4% Ib
<b>Burden</b>	≤10VA, 1.8W
<b>Protective Class</b>	Class II (double insulated) IEC 62052-11
<b>Burden</b>	≤10VA, 1.8W
<b>Operation temperature range</b>	-20°C ~ +55°C
<b>Storage temperature range</b>	-25°C ~ +60°C
<b>Life span</b>	10 years
<b>Reference standard</b>	IEC 62052-11; IEC 62053-21
<b>Dimension</b>	186.25x126x56mm



Meter external dimensions (unit: mm)



## UNA134 CT Smart Meter

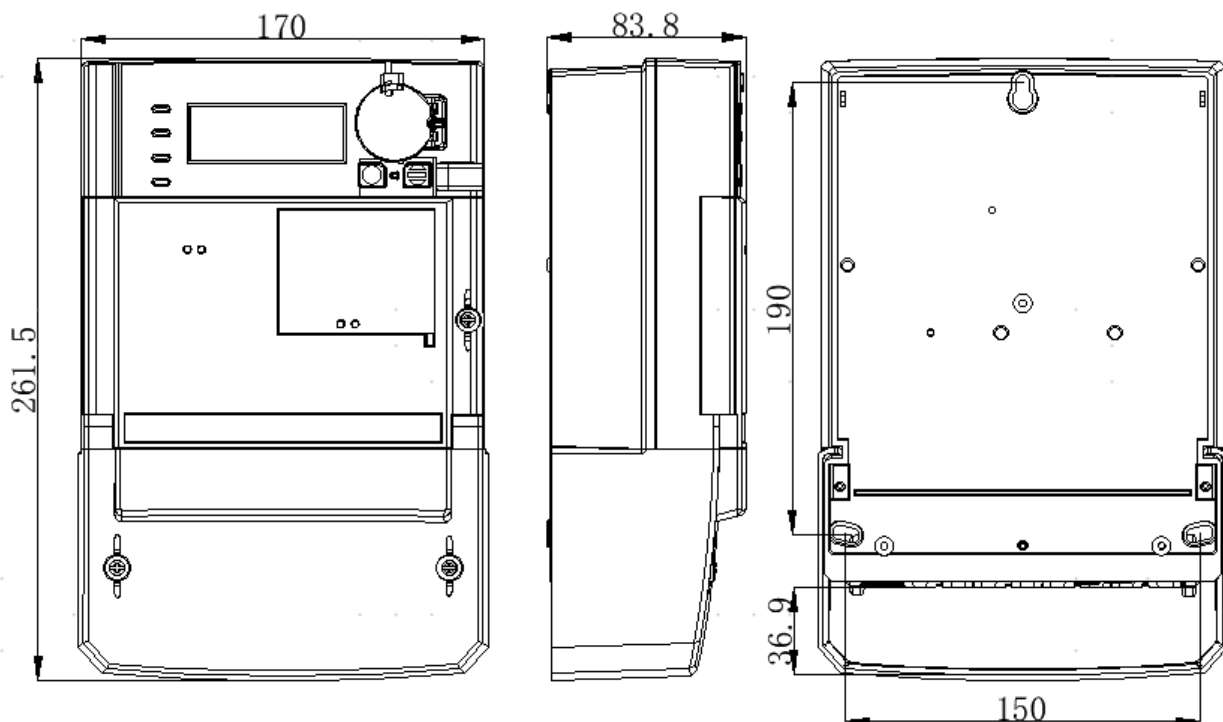
UNA134 three phase CT connected smart meter is capable of STS based prepayment functionality, two-way communication with back office with various communication technology, load control for external MCCB with power relay.

### Features Technical Parameter Product Size Chart

- Compliance with IEC standards (IEC 62052-11, IEC 62053-21, and IEC 62053-23 )
- Compliance with Interoperability standards such as G3-PLC, BPLC, DLMS/COSEM, IDIS2, STS2
- Secured communication channels and encrypted data exchange with DLMS/COSEM security suites 0/1
- Dual plug and play modules application, capable of G3-PLC / BPLC / Wi-Sun RF / 2G / 3G / 4G/CAT.1
- Terminal holes and screws with anti-dropping design
- Measurement of TOU, billing, profile, four quadrant energy & power, instantaneous values.
- Remote/local upgrade

<b>Nominal Voltage</b>	3×240/415v
<b>Voltage Range</b>	144v~270v
<b>Current</b>	1(5)A, 5(10)A
<b>Start Current</b>	0.5% of Ib
<b>Frequency</b>	50Hz±2%
<b>Accuracy Class</b>	0.5S

<b>Impulse Withstand Voltage</b>	6kV
<b>Burden</b>	Per Phase: Voltage Circuit(<2VA), Current Circuit(<1VA)
<b>Standard</b>	Fully compliant with IEC 62052-11, IEC 62053-22 and IEC 62053-24 standards (mechanical, climatic, electrical, electromechanical and metrological)
<b>Real-time Clock Accuracy</b>	<3min/Year or <0.5s/Day
<b>Environment</b>	Temperature Range: -25°C~ +75°C Humidity: Up to 96% at 45°C non condensing
<b>Ingress Protection</b>	IP54
<b>Communication</b>	Optical Port (IEC 62056-21) RS485/GPRS/3G/4G DLMS/COSEM Protocol (IEC 62056)
<b>Life Span Minimum</b>	10 Years
<b>Liquid Crystal Display</b>	





## UNP234 Smart Meter


UNAP34 three phase Directed connected smart meter is capable of STS based prepayment functionality, two-way communication with back office with various communication technology, load control with internal latching relay.

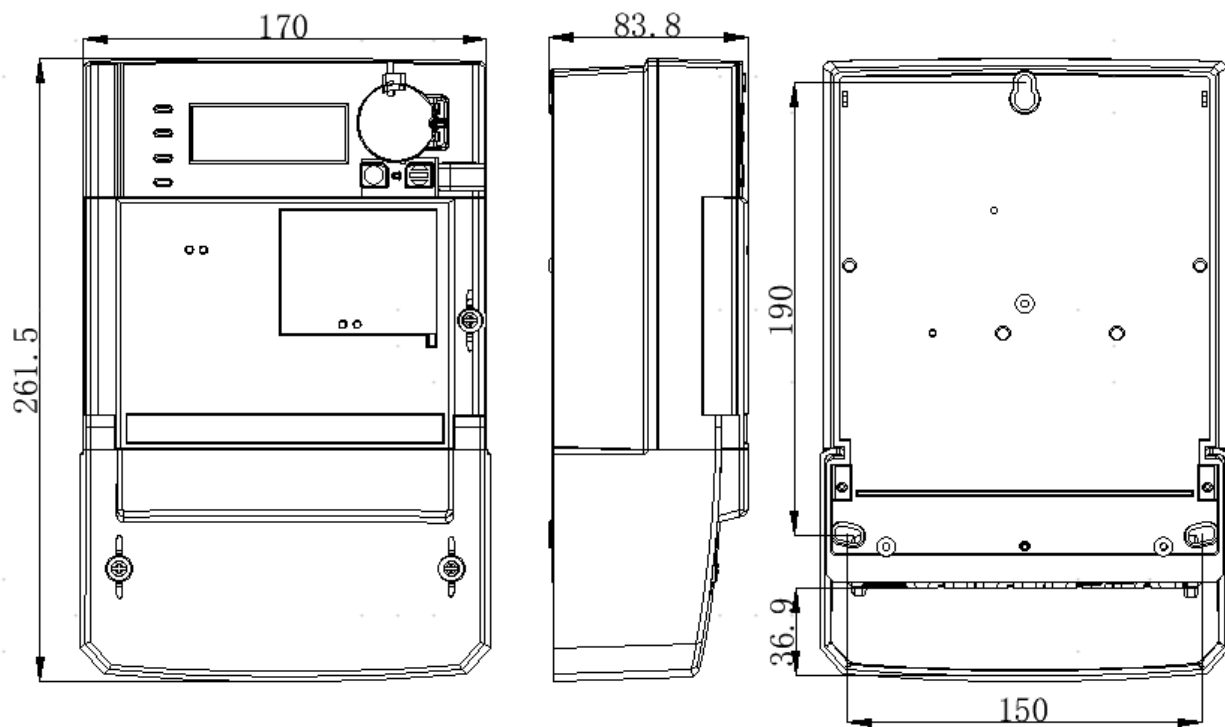
## Features Technical Parameter Product Size Chart

- Compliance with IEC standards (IEC 62052-11, IEC 62053-21, and IEC 62053-23 )
- Compliance with Interoperability standards such as G3-PLC, BPLC, DLMS/COSEM, IDIS2, STS2
- Secured communication channels and encrypted data exchange with DLMS/COSEM security suites 0/1
- Dual plug and play modules application, capable of G3-PLC / BPLC / Wi-Sun RF / 2G / 3G / 4G/CAT.1
- Terminal holes and screws with anti-dropping design
- Measurement of TOU, billing, profile, four quadrant energy & power, instantaneous values.
- Disconnect/reconnect with latching relay
- Remote/local upgrade

<b>Nominal Voltage</b>	3×230/400v
<b>Voltage Range</b>	0.5Un~1.3Un
<b>Current</b>	5(100)A
<b>Frequency</b>	50Hz / 60Hz
<b>Accuracy Class</b>	Active Energy: CL 1.0 1000 imp/kWh Reactive Energy: CL 2.0 1000 imp/kvarh



<b>Standard</b>	Fully compliant with IEC 62052-11, IEC 62053-21 , IEC 62053-23 (mechanical, climatic, electrical, electromechanical and metrological)
<b>Real-time Clock Accuracy</b>	<3min/Year or <0.5s/Day
<b>Environment</b>	Temperature Range: -25°C ~ +75 °C Humidity: Up to 95%
<b>Ingress Protection</b>	IP54
<b>Communication Interface</b>	Optical port (IEC 62056-21) Optional RS232 and/or RS485 DLMS/COSEM Protocol (IEC 62056)
<b>Liquid Crystal Display</b>	





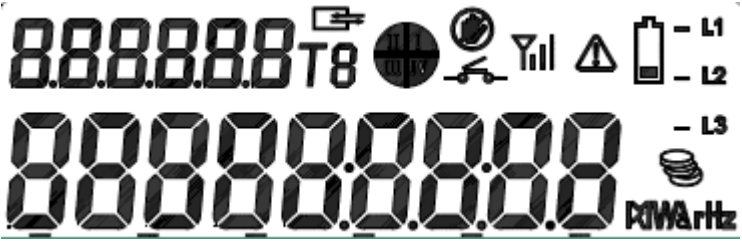
## UNA234 CTPT Smart Meter

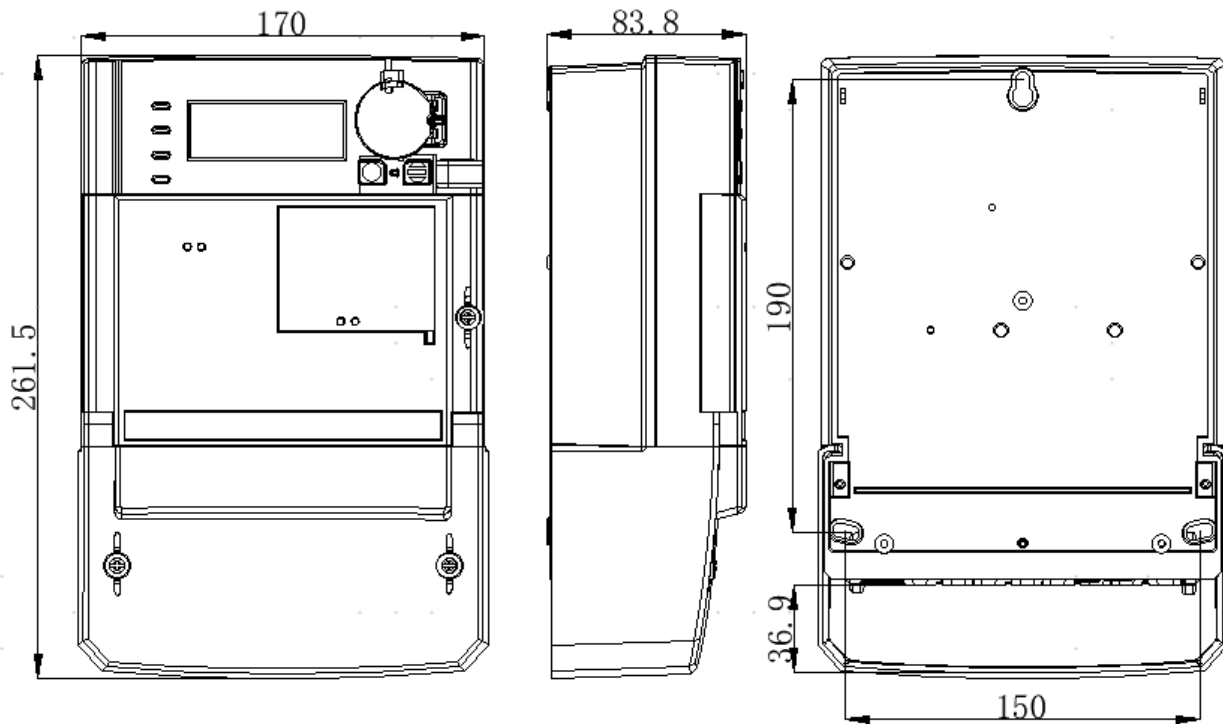
UNA234 three phase CT/PT connected meter is capable of operating and measurement on MV/HV line with wide operating voltage , two-way communication with back office with various communication technology.

### Features Technical Parameter Product Size Chart

- Compliance with IEC standards (IEC 62052-11, IEC 62053-21, and IEC 62053-23 )
- Compliance with Interoperability standards such as, DLMS/COSEM, IDIS2, STS2
- Secured communication channels and encrypted data exchange with DLMS/COSEM security suites 0/1
- Dual plug and play modules application, capable of 2G / 3G / 4G/CAT.1
- Terminal holes and screws with anti-dropping design
- Measurement of TOU, billing, profile, four quadrant energy & power, instantaneous values.
- Remote/local upgrade

<b>Nominal Voltage</b>	3×63/110v Programmable
<b>Voltage Range</b>	50v~70v
<b>Current</b>	1(5)A, 5(10)A
<b>Start Current</b>	0.1% of Ib
<b>Frequency</b>	50Hz±2%
<b>Accuracy Class</b>	0.5S
<b>Impulse Withstand Voltage</b>	6kV
<b>Burden</b>	Per Phase: Voltage Circuit(<2VA), Current Circuit(<1VA)

<b>Standard</b>	Fully compliant with IEC 62052-11, IEC 62053-22 and IEC 62053-24 standards (mechanical, climatic, electrical, electromechanical and metrological)
<b>Real-time Clock Accuracy</b>	<3min/Year or <0.5s/Day
<b>Environment</b>	Temperature Range: -25°C~ +75°C Humidity: Up to 96% at 45°C non condensing
<b>Ingress Protection</b>	IP54
<b>Communication</b>	Optical Port (IEC 62056-21) RS485/GPRS/3G/4G DLMS/COSEM Protocol (IEC 62056)
<b>Life Span Minimum</b>	10 Years
<b>Liquid Crystal Display</b>	 <p>The LCD display shows two rows of digits. The top row displays '8.8.8.8.8.8 T8' followed by icons for a battery, a globe, a signal strength indicator, a warning triangle, and a battery level indicator labeled 'L1 - L2'. The bottom row displays '8.8.8.8.8.8.8.8' followed by a battery level indicator labeled 'L3' and the 'RTM Artiz' logo.</p>





## UND212 Smart DIN-Rail Meter

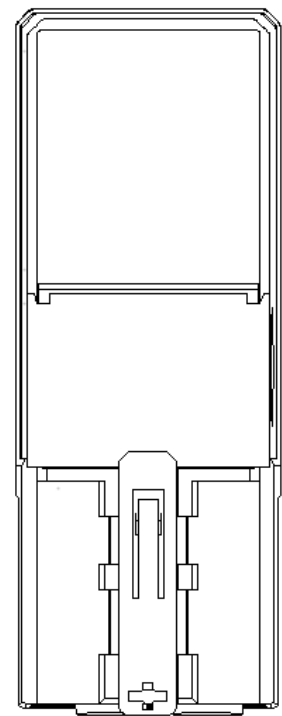
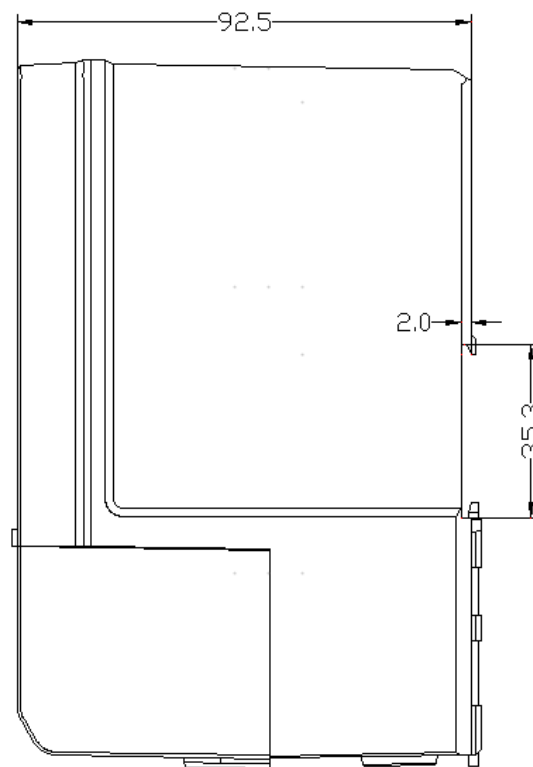
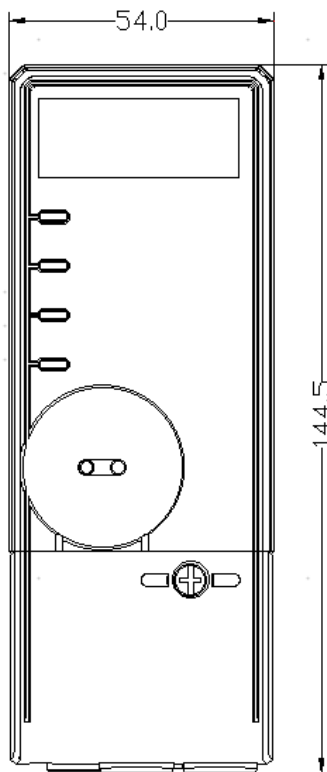
UND112 single phase two wire DIN-Rail meter is capable of STS based prepayment functionality, two-way communication with back office with various communication technology, load control with internal latching relay.

## Features Technical Parameter Product Size Chart

- Compliance with IEC standards (IEC 62052-11, IEC 62053-21, and IEC 62053-23 )
- Compliance with Interoperability standards such as G3-PLC, BPLC, DLMS/COSEM, IDIS2, STS2
- Secured communication channels and encrypted data exchange with DLMS/COSEM security suites 0/1
- Dual plug and play modules application, capable of G3-PLC / BPLC / Wi-Sun RF / 2G / 3G / 4G/CAT.1
- Terminal holes and screws with anti-dropping design
- Measurement of TOU, billing, profile, four quadrant energy & power, instantaneous values.
- Disconnect/reconnect with latching relay
- Remote/local upgrade

<b>Nominal Voltage</b>	230V
<b>Voltage Range</b>	0.5Un~1.3Un
<b>Current</b>	5(80)A
<b>Frequency</b>	50Hz / 60Hz
<b>Accuracy Class</b>	Active Energy: CL 1.0 1000 imp/kWh

<b>Standard</b>	Fully compliant with IEC 62052-11, IEC 62053-21 , IEC 62053-23 (mechanical, climatic, electrical, electromechanical and metrological)
<b>Real-time Clock Accuracy</b>	<3min/Year or <0.5s/Day
<b>Environment</b>	Temperature Range: -40°C ~ +75 °C Humidity: Up to 95%
<b>Ingress Protection</b>	IP54
<b>Communication Interface</b>	Optical port (IEC 62056-21) Optional RS232 and/or RS485 DLMS/COSEM Protocol (IEC 62056)
<b>Liquid Crystal Display</b>	





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## GCC34D Data Concentrator Unit

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UNDC300 working as communication proxy between smart meter and back office, enable two-way communication between smart meter with neighbourhood technologies like PLC/RF and back office, and provide schedule reading and management of smart meter to balance workload on system side.

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## Features Technical Parameter Product Size Chart

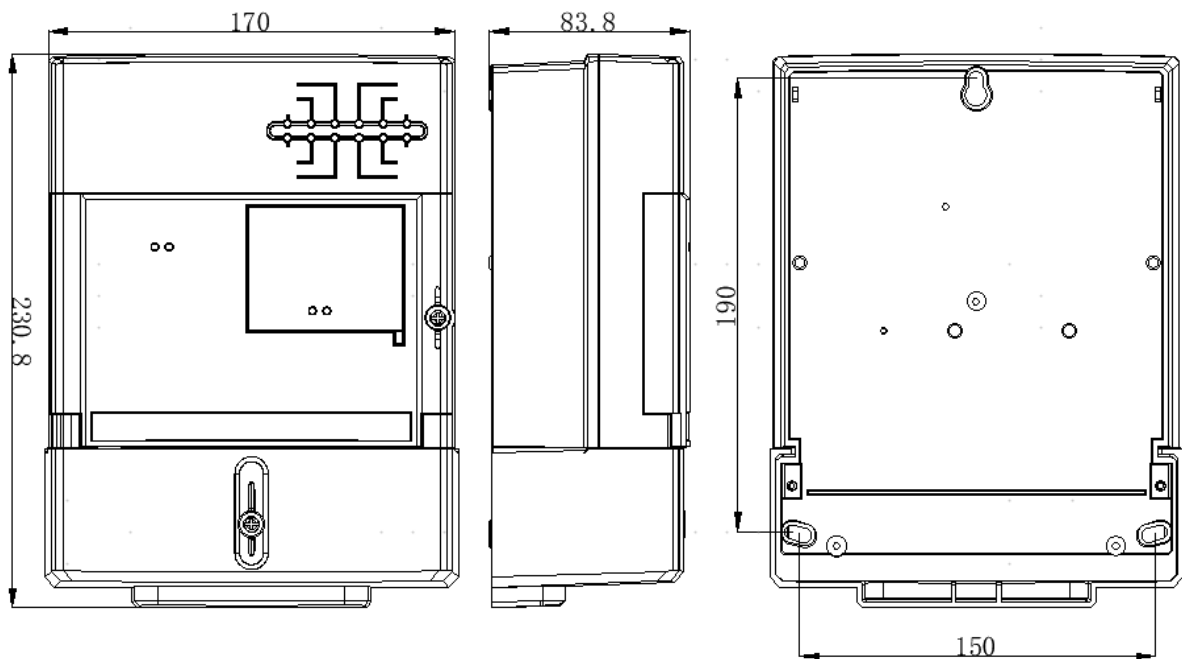
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- Independent communication interfaces:G3/RF, GPRS/3G/4G,Ethernet
- Two work modes: gateway and scheduled reading task
- WEB service integration to MDC based on IEC 62056-9-1
- Maintain and obtain topology of the communication nodes
- Up to 2047 meters management
- Self-diagnosis and event records
- Communication encryption algorithm supports AES128, AES256, ECC192
- WEB access based on HTTPS
- Troubleshooting & diagnostics log which can be obtained by command or U-disk
- Increment upgrading feature guarantee success rate and minimum network data flow
- Meter reading & control, review and export data through WEB browser
- Built-in Bluetooth for local meter reading and maintenance

<b>Storage Capacity</b>	256MB Up to 24 monthly billing data Up to 40,000 load profiles Up to 40,000 Alarms & Events
<b>Memory</b>	64MB
<b>Nominal Voltage</b>	3×230/400v
<b>Voltage Range</b>	0.5Un~1.2Un

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<b>Frequency</b>	50Hz / 60Hz
<b>Static Power Consumption</b>	5W
<b>Communication</b>	IEC 62056-5-3, IEC 62056-6-1, IEC 62056-6-2, IEC 62056-9-1, IEC 61968
<b>Communication Interface</b>	Uplink: GPRS/3G/4G/Ethernet Downlink: G3 PLC/BPSK/BPLC Local: Bluetooth/Ethernet
<b>Ingress Protection</b>	IP54 Indoor
<b>Real-time Clock Accuracy</b>	<3min/Year or <0.5s/Day
<b>Environment</b>	Temperature Range: -40°C ~ +70 °C Humidity: Up to 95%
<b>Standard</b>	IEC 62052-21 clause 7, IEC 62052-11



Survey No.	Status	Series ID	Install Order	Customer	Unit ID	Location	Batch No.	Area Name	Area No.	Created On	Created By	Action
100014	Failed			customer_name	AL0		21010			2013-01-16 16:47:23	hangjiaoping	-
100017	Failed			customer_name	W0111101		201003			2013-01-16 16:19:13	hangjiaoping	-
100018	Failed			customer_name	W0111101		2100110101			2013-01-16 16:09:36	hangjiaoping	-
100019	Failed			customer_name	W0111101		1200101			2013-01-16 15:58:52	hangjiaoping	-
100020	Failed			customer_name	W0111101		2002101			2013-01-16 15:49:57	hangjiaoping	-
100021	Failed			customer_name	W0111101	AL0	1200101			2013-01-16 15:47:02	hangjiaoping	-
100019	Failed			customer_name	W0111101		470010101			2013-01-16 15:43:62	WangJiaoping	-
100018	Failed			customer_name	W0111101		1000101			2013-01-16 15:37:43	WangJiaoping	-
100019	Failed			customer_name	W0111101	AL0	210010			2013-01-16 15:37:44	hangjiaoping	-
100011	Failed			customer_name	W0111101		11001001			2013-01-16 14:33:11	hangjiaoping	-
100010	Failed			customer_name	W0111101		210010101			2013-01-16 14:33:36	hangjiaoping	-
100004	Failed	01-08		customer_name	W0111101		1200101			2013-01-02 00:17:58	hangjiaoping	-
100001	Failed	01-01		customer_name	W0111101	AL0	1200101	0015	hangjiaoping	2013-01-26 17:14:11	hangjiaoping	-
100008	Failed	01-03		customer_name	W0111101	AL0	1400101			2013-01-19 15:38:36	hangjiaoping	-
100005	Failed	01-04		customer_name	W0111101	AL0	1200101	0015	DB0	2013-01-21 15:43:14	hangjiaoping	-
100007	Failed	01-01		customer_name	W0111101	AL0	1000101			2013-01-02 00:18:08	hangjiaoping	-

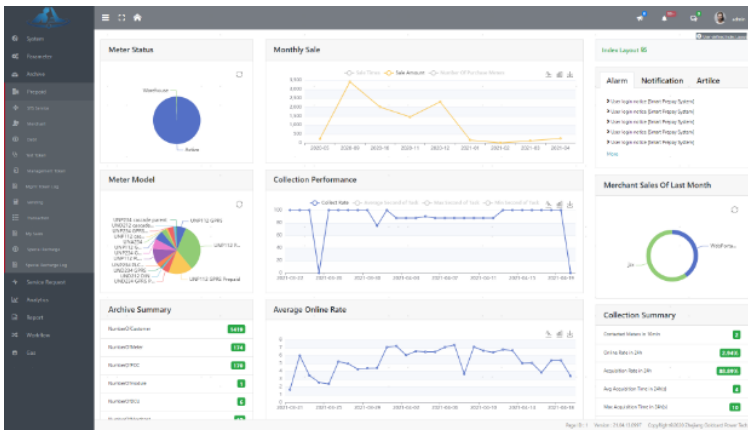
## FDM

FDM system combines WEB application and mobile APP, help utility for the installation and management of field survey, field meter installation, maintenance, trouble shooting, and can be seamlessly integrated with AMI system to improve meter archive accuracy rate and improve data collection and data analysis management.

## Features Technical Parameter Product Size Chart

- Support installation, replacement, and dismounting of meters and DCU
- Support tracking and management of work order and plans, monitoring device status
- Support operators uploading and downloading data classification statistics by day, week and month
- Authorization and supervision management
- Integrated with AMI, which can be used independently or as an AMI module
- Mobile APP supports running on Android based smart devices(handheld, smart phones, tablets, etc.)
- Can cover all types of DLMS meter from different provides
- Field data can be imported into Billing/ERP system for settlement.



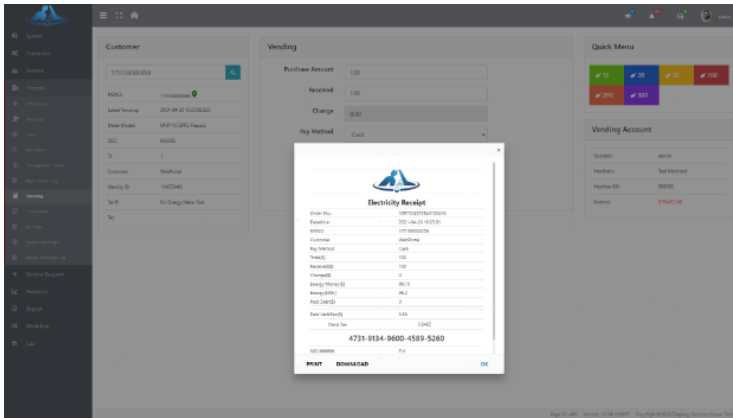


## MDMs

Management System (MDMS) is based on data measurement to ensure data accuracy and consistency of raw data from meters. It provides an integration with multiple Head end system (HES) to ensure unified data, unified business process and devices interconnection. It has the objective of providing processes for collecting, aggregating, matching, consolidating, quality assuring to ensure control and consistency.

## Features Technical Parameter Product Size Chart

- System satisfies 7\*24 hours running without break, providing continuous and steady service.
- System's flexibility satisfies business requirement and future development of State Grid
- System can integrate different kinds of application systems, satisfies seamless integration requirement to adapt complicated system construction
- Adopts Dual servers parallel running, so that the failure of one sever will not affect the system. The solution is proved to be of high availability
- Unified interface specification,for data access interactive systems
- Unified archive management, including grid structure, organizational structure, administrative area, customer and equipment
- VEE(validation, estimation, edition) to to ensure high quality data, , and support customized validation rules according to standard rules of group management
- Work flow management, such as meter installation, site survey, maintenance.
- Line loss calculation



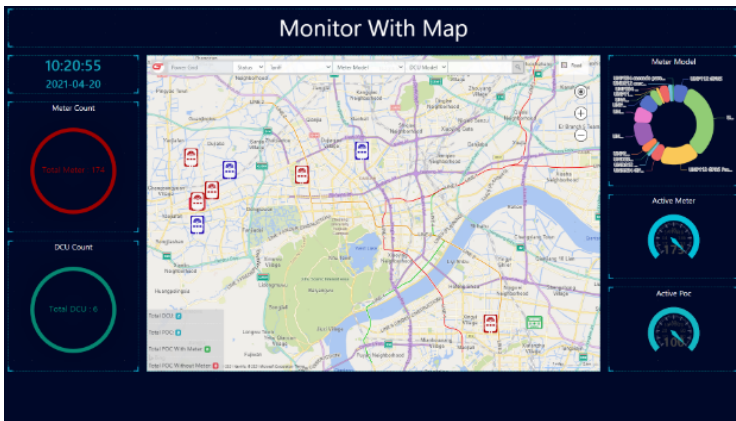
## STS Smart Prepaid System

Easy life for each payment

STS smart prepaid system combine web application, STS service, vending client to meet utility's requirement, and improve end customer experience

## Features Technical Parameter Product Size Chart

- Compliance with latest STS edition
- Multiple vending channel support such as CDU, mobile POS, TM, E-bank, etc
- Full scalable architecture, capable of high transaction volum
- Role base access authorization managemen
- STS2.
- Flexible fee managemen
- ariff management, including Single tariff, Block tariff, TOU tariff
- CDU managemen
- Debt managemen
- ending, including transaction management
- Support full management token and test token generatio
- Reportin



## AMI System

Our AMI system combines web console application and data collection process. The system helps to manage metering device and relative information, including grid structure, customer, module, meter model, parameter information. The system also provides a number of important functions that were not previously possible or had to be performed manually, such as the ability to automatically and remotely measure electricity use, connect and disconnect service, detect tampering, identify and isolate outages, and monitor voltage.

## Features Technical Parameter Product Size Chart

- Remote readings of electricity meters (register states, profile data, voltages, currents, error messages, etc.)
- Storage and archiving of remotely read data
- Remote firmware upgrade, disconnect/reconnect, parameter setting
- Role based access control
- Reporting
  
- Multi-communication channels support such as GPRS/3G/4G, SMS, Ethernet, Wifi, etc.
- Comply with DLMS/COSEM, STS, IDIS2 international standards
- Various commercial database support SqlServer, Oracle, MySql, etc.
- Interoperable interface compliance with IEC61968, XMLVend, restful
- Scalable system architecture to support large, high concurrent transactions.
- Support to run on multiple platforms, windows, linux and android.

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