



Electricity Meter



ABOUT CHINT



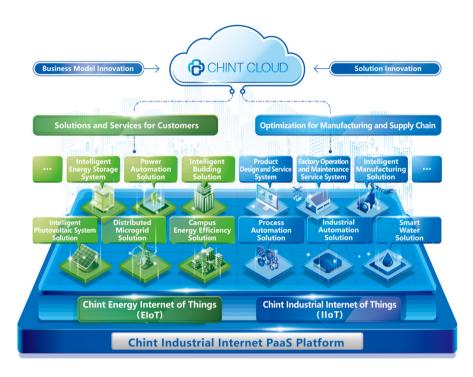
CHINT is a world renowned smart energy solution provider.

To comply with the trend of integrated development of modern energy, intelligent manufacturing and digital technology, CHINT has adopted the One Cloud & Two Nets as business strategy. As the platform of intelligent technology and data application, CHINT Cloud fulfills digital application and services in both internal and external. Based on the Industrial Internet of Things (IIoT), CHINT built an intelligent manufacturing system and realizes intelligent application in electrical industry. Relying on the Energy Internet of Things (EIoT), CHINT built its smart energy system and develops the regional EIoT mode.

Focusing on energy system of supply, storage, transmission, distribution and consumption, CHINT has core businesses of clean energy, energy distribution, big data and energy value-added services. Furthermore, CHINT pillar businesses include photovoltaic equipment, energy storage, power transmission & distribution, low-voltage apparatuses, intelligent terminals, software development and control automation. With developing into a platform enterprise, CHINT provides a package of energy solutions for public institutions, industrial & commercial users and end users, by building a regional smart energy operation ecosphere.

Founded in 1984, CHINT has developed business network in over 140 countries and regions with more than 30,000 employees. CHINT has reached annual sales of 10.5 billion USD, ranking Top 50 Asian Listed Companies and Top 100 China Private Enterprises.

ONE CLOUD & TWO NETS STRATEGY



CHINT CLOUD

Being the carrier of smart technology and data applications, CHINT Cloud connects corporate in-house manufacturing with operation and management data, realizing digital applications and services internally and externally.

CHINT EIOT

Being a user-centric multi-energy complementary smart energy system, CHINT EIOT provides a package of energy solutions for governments, industrial & commercial users and end users

CHINT IIoT

Being a smart manufacturing system based on corporate digital transformation, CHINT IIOT constitutes a flexible, high-efficiency and intelligent industrial system.



RELIABLE QUALITY, BEST-SELLING WORLDWIDE

- 3 global R&D centers: Europe、North America、Asia Pacific
- 6 worldwide marketing areas : Asia Pacific、Western Asia and Africa、Europe、Latin America、 North America、China
- 13 manufacturing bases: China (Wenzhou, Shanghai, Hangzhou, Jiaxing, Xianyang, Jiuquan, Jinan), Thailand, Egypt, Singapore, Vietnam, Malaysia, Algeria (production line)

- 20 overseas subsidiaries
- 16 marketing offices in China
- 32 international logistics centers
- 2300 sales companies



CHINT HONORS

Comprehensive Strength

- 2015, top 100 enterprises in China machinery industry
- 2016, top 100 enterprises of Zhejiang Province
- 2017, ranking the 85th place among top 500 China private enterprises
- 2017, innovative leading enterprise of Zhejiang Province
- 2017, top 100 enterprises in innovation capacity among the national hi-tech enterprises of Zhejiang Province

Quality Management

- 2016, advanced unit and user-satisfied enterprise in national user satisfaction project
- 2016, executive director unit of Asia Quality Function Development Association
- 2017, quality good faith enterprise of China machinery industry
- 2017, national product and service quality good faith demonstration enterprise

Independent Innovation

- 2015, Science and Technology Award of China Electrotechnical Society
- 2016, Golden Patent Prize of Zhejiang Province and Patent Recognition Award of Zhejiang Province for two serial products
- 2016, national intellectual property demonstration enterprise
 2016, group member of China Intellectual Property Society
- 2016, member of Global Energy Interconnection Development and Cooperation Organization

Social Responsibilities

- 2014, five-star enterprise of China industry sector in performing social responsibilities
- 2016, National Enterprise of Observing Contract and Valuing Credit
- 2017, credit management demonstration enterprise of Zhejiang Province
- 2018, the 10th "China Charity Award" of the Ministry of Civil Affairs

QUALIFICATION CERTIFICATION

The products have been accredited through China Compulsory Certification (CCC) as well as UL of US, CE of EU, VDE and TÜV of Germany, EAC of Russia, KEMA of Netherlands, RCM of Australia, RCC of South Africa and other international product certifications.





















Chint Instrument & Meter

- Zhejiang Chint Instrument & Meter Co., Ltd, founded in 1998, which is one of the core subsidiaries of CHINT Group, a
 national high-tech enterprise, and the National Torch Program key high-tech enterprise.
- Chint Meter provides reliable products and qualified service for customers of electricity, gas, new energy, rail transmit, communication, petrochemical architecture industry, etc. Admitting by State Grid, South Grid, Petro China, Sinopec, China Telecom, China gas, China Res Gas.
- ◎ Independent R&D: more than 380 items.
- ® Passed MID, KEMA, NMI, STS and other more than 10 international authority certifications.
- A qualified supplier of France Utility EDF.
- Products are sold well in more than 70 countries and regions.

Leading Energy Measurement Equipment and System Solution Provider

I Products and Solutions

- Smart Electricity Meter
- Smart Gas Meter
- (i) Power Supervision and Control Meter
- Smart Water Meter
- Smart Data Concentrator
- Energy Measurement System Solution
- Power Distribution Monitoring System Solution
- Energy Efficiency Management System Solution

Advantages



Possessing the group "generate, storage, transmit, transfer, delivery, use" electric equipment whole industry chain advantages.



Acquiring the world second, China first R46 certification issued by International Organization of Legal Metrology (OIML).



In collaboration with CHINT Electric, Chint Instrument & Meter takes the lead in developing the metering and monitoring functions for the smart circuit breaker.



IEC 1906 Award.



Steel gas meter- the world first pass the International certification authority Netherlands NMI laboratory 8000 hours natural gas durability test.





















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4 Improvements



Electricity Meter / Digital Panel Meter / DIN-Rail Meter









960°C Resistance to fire

Refractory materials make electricity safer







35mm DIN-Rail Smaller size & easier installation

Delicate structure suitable for complex site environment







Class 0.5 High accuracy measurement

3-digit decimal display provides accurate data





DDS666 Single Phase Electronic Meter



LCD Type



Register Type

Function

- Low Power Consumption
- Bi-Direction Measurement
- Optional Display

Features

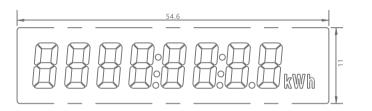






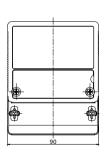


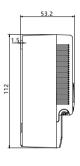
LCD Indication

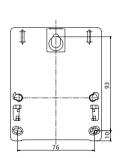


Units: mm

Meter Dimensions







DDS666 Single Phase Electronic Meter

Specifications

Measurement

• Compliance with IEC62052-11 IEC62053-21

• Element: 1P2W

• Accuracy: Class 1.0 for active

Voltage

• Nominal voltage (Un): 220V, 230V, 240V

Operating range: 0.75Un ~ 1.2Un
Power consumption: ≤2W , 10VA

Current

• 5(60)A

• 5(100)A

Frequency

• 50Hz or 60Hz, ±5%

LCD Display (LCD optional)

- 8 characters of 7 segment display
- Display available without main power LCD Display

Register Display (Optional)

• Register type: 5+1 display

• LCD type: 6+2 display

Backup Power (LCD type only)

• Built-in super capacitor / battery

Measured Values

Absolute kWh

Output

• LED pulse for per kWh

Communications (LCD type only)

- Optical port (optional)
- RS-485 (optional)
- Bluetooth (optional)

Environmental

• Operating range limit: -40°C to +75°C

• storage range limit: -40°C to +85°C

• Relative humidity: ≤95% RH

• Ingress protection: IP54

Dimensions and Weight

• Dimensions: 112mm ×90mm × 53.2mm

• Weight: 0.3kg (Approx.)

DDSY666 Single Phase Smart Card Meter



LCD Type

Function

- IC Card Prepayment
- Balance Alarm
- Multiple Data Encryption

Features

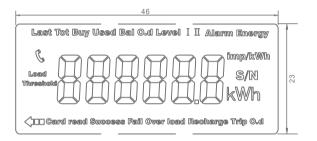






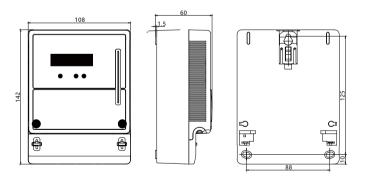


LCD Indication



Units: mm

Meter Dimensions



DDSY666 Single Phase Smart Card Meter

Specifications

Measurement

• Compliance with IEC62052-11 IEC62053-21

• Connection type: 1P2W

• Accuracy: Class 1.0 for active

Voltage

• Nominal voltage (Un): 220V, 230V, 240V

Operating range: 0.7Un ~ 1.2Un
Power consumption: ≤1.5W, 5VA

Current

• 5(60)A

• 10(80)A

Frequency

• 50Hz or 60Hz, ±5%

LCD Display

- 6 characters of 7 segment display
- Digital size: 4.2mm × 9.2mm
- With backlight
- Auto scroll and scroll with push button
- Reverse power

Measured Values

- Active energy
- Cumulative and credit energy

Relay

- Internal relay
- One relay / 90A
- Relay will disconnected when meter overload (configure)

Communications

- Optical (IR) port
- RS485 port

Alarm

- Alarm for not enough balance
- Relay disconnected alarm for overload

Security

- One card one password
- Multiple data encryption

Environmental

- Operating range limit: -40°C to +75°C
- Storage range limit: -40°C to +85°C
- Relative humidity: ≤ 95%RH
- Ingress protection: IP54

Dimensions and Weight

- Dimensions: 142mm × 108mm × 60mm
- Weight: 0.6 kg (Approx.)

DTSY666 Three Phase Smart Card Meter



LCD Type

Function

- IC Card Prepayment
- Balance Alarm
- Multiple Data Encryption

Features

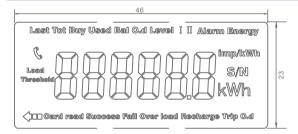






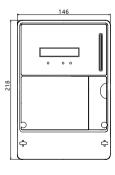


LCD Indication



Units: mm

Meter Dimensions







DTSY666 Three Phase Smart Card Meter

Specifications

Measurement

• Compliance with IEC62052-11 IEC62053-21

• Connection type: 3P4W

• Accuracy: Class 1.0 for active

Voltage

Nominal voltage (Un): 3×220/380V ~ 3×240/415V

Operating range: 0.7Un ~ 1.2Un
Power consumption: ≤1.5W, 5VA

Current

• 1.5(6)A

• 5(60)A

• 10(100)A

Frequency

• 50Hz or 60Hz, ±5%

LCD Display

- 6 characters of 7 segment display
- Digital size: 5.4mm × 11.8mm
- With backlight
- Auto scroll and scroll with push button
- Reverse power

Measured Values

- Active energy
- Cumulative and credit energy

Relay

- Internal relay / 60A
- External relay / 100A
- Relay will disconnected when meter overload (configure)

Communications

- Optical (IR) port
- RS485 port

Alarm

- Alarm for not enough balance
- Relay disconnected alarm for overload

Security

- One card one password
- Multiple data encryption

Environmental

- Operating range limit: -40°C to +75°C
- Storage range limit: -40°C to +85°C
- Relative humidity: ≤ 95%RH
- Ingress protection: IP54

Dimensions and Weight

- Dimensions: 218mm × 146mm × 71mm
- Weight: 1.3 kg (Approx.)

DTS634 Three Phase Electronic Meter



LCD Type



Register Type

Function

- Low Power Consumption
- Bi-Direction Measurement
- Optional Display

Features

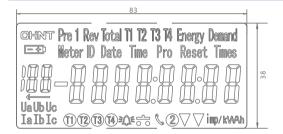








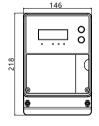
LCD Indication

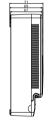


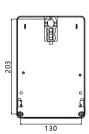
Units: mm

Meter Dimensions

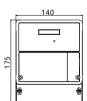
LCD type







Register type







DTS634 Three Phase Electronic Meter

Specifications

Measurement

• Compliance with IEC62052-11 IEC62053-21

• Element: 3P4W

• Accuracy: Class 1.0 for active

Voltage

Nominal voltage (Un): 3×220/380V ~ 3×240/415V

Operating range: 0.75Un ~ 1.2Un
Power consumption: ≤1.5W, 5VA

Current

• 1.5(6)A

• 5(60)A

• 10(100)A

Frequency

• 50Hz or 60Hz, ±5%

LCD Display (LCD type only)

• 8 characters of 7 segment display

• Display available without main power LCD Display

• Digital size: 7.1mm × 15.9mm

Register Display (Optional)

• Register type: 5+1 display

• LCD type: 6+2 display

Measured Values

- Import/Export/Absolute kWh
- Instantaneous kW, kVA, Irms, Vrms, Frequency, Power factor (LCD type only)

Output

• LED pulse for per kWh

Communications (LCD type only)

- Optical port (optional)
- RS-485 (optional)

Environmental

- Operating range limit: -40°C to +75°C
- storage range limit: -40°C to +85°C
- Relative humidity: ≤95% RH
- Ingress protection: IP54

Dimensions and Weight

- Register type: 175mm ×140mm × 71mm
- LCD type: 218mm ×146mm × 71mm
- Weight: Register type 0.9 kg (Approx.)
 LCD type 1.3 kg (Approx.)

DDSU666 Single Phase DIN-Rail Meter



LCD Type

Function

- LCD Display
- Bi-Direction Measurement
- DIN-Rail Installation

Features

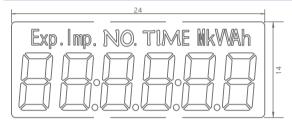






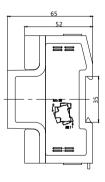


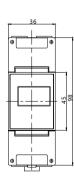
LCD Indication

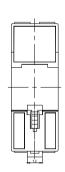


Units: mm

Meter Dimensions







DDSU666 Single Phase DIN-Rail Meter

Specifications

Measurement

• Compliance with IEC62052-11 IEC62053-21

Connection type: 1P2WAccuracy: Class 1.0 for active

Voltage

• Nominal voltage (Un): 120V, 220V, 230V, 240V

Operating range: 0.7Un ~ 1.2Un
Power consumption: ≤1W, 5VA

Current

CT: 1.5(6)ADC: 5(80)A

Frequency

• 50Hz or 60Hz

LCD Display

• 6 characters of 7 segment display

• Digital size: 5.3mm × 2.8mm

LED Display

• Number of flashes per kWh

Measured Values

- Total kWh
- Instantaneous kW
- Instantaneous Irms, Vrms, frequency, power factor

Communications

• RS485

• Protocol: Modbus and DL/T 645-2007

Environmental

Operating range limit: -40°C to +75°C
 Storage range limit: -40°C to +85°C
 Relative humidity: ≤ 95%RH
 Ingress protection: IP51

Dimensions and Weight

• Dimensions: 98mm ×65mm × 36mm

• Weight: 0.2 kg (Approx.)

DTSU666 Three Phase DIN-Rail Meter



LCD Type

Function

- LCD Display
- Bi-Direction Measurement
- DIN-Rail Installation

Features

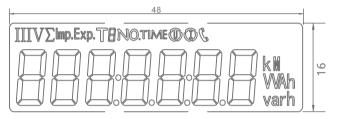








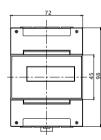
LCD Indication

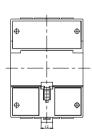


Units: mm

Meter Dimensions







DTSU666 Three Phase DIN-Rail Meter

Specifications

Measurement

• Compliance with IEC62052-11 IEC62053-21

• Connection type: 3P4W

• Accuracy: Class 1.0 for active

Voltage

• Nominal voltage (Un): 3×220/380V , 3×230/400V

3×240/415V

Operating range: 0.7Un ~ 1.2Un
Power consumption: ≤1W, 5VA

Current

CT: 1.5(6)ADC: 5(80)A

Frequency

• 50Hz or 60Hz

LCD Display

- 7 characters of 7 segment display
- Digital size: 5.3mm × 2.8mm

LED Display

• Number of flashes per kWh

Measured Values

- Total kWh
- Total kvarh
- Instantaneous kW, kvar
- Instantaneous Irms, Vrms, frequency, power factor

Communications

- RS485
- Protocol: Modbus and DL/T 645-2007

Environmental

Operating range limit: -40°C to +75°C
Storage range limit: -40°C to +85°C

Relative humidity: ≤ 95%RH
Ingress protection: IP51

Dimensions and Weight

• Dimensions: 98mm ×65mm × 72mm

• Weight: 0.4 kg (Approx.)

PA/PZ666-□ series Single Phase Digital Ammeter, Voltmeter



Single Phase Digital Ammeter



Single Phase Digital Voltmeter

Main Functions and Characteristics

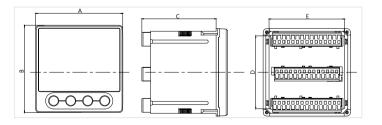
- Real-time measurement and indication for the current and voltage value of the power circuit.
- Extensible analog output function, current range 4~20mA, 0~20mA, 0~10 mA selectable.
- Extensible relay switch output function, upper and lower alarm output can be realized.
- Extensible RS485 communication interface, according to MODBUS-RTU communication protocol, the baud rate can be set.

Technical Parameters

Item	Specification
Voltage	AC 100V, 660V selectable, DC 75mV, 660V, other special specifications can be custom-made
Current	AC 1A,5A selectable, DC4~20mA, 5A selectable, other special specifications can be custom-made
Frequency	45Hz~65Hz
Accuracy class	Class 0.5
Auxiliary power supply	220VAC±20%, AC/DC85-264 switch power supply customizable
Operation temperature range	Operation temperature range: -25°C \sim 55°C, limit operation temperature range: -40°C \sim 70°C
Power consumption	≤2W/10VA
Display mode	LED display

External and Installation Dimensions

Model	Panel dimension (A×B)	Main part dimension (E×D)	Depth (C)	Hole spacing dimensions (W× H)
P-1	96×48	90×44	110	92×45
P-2	72×72	66×66	90	68×68
P-3	96×96	90×90	90	92×92
P-4	48×48	44×44	110	45×45
P-6	80×80	75×75	90	76×76
P-8	120×120	112×112	90	114×114



PA/PZ666-□ series Single Phase Digital Ammeter, Voltmeter

Model Specification and Selection Description

Units: mm

	Measurement display Single phase		Т	К	В		
Model			RS485 communication	Switch signal output	Analog signal output	External dimension	Display mode
PA666-1		•	0	0	0	96×48	
PA666-2		•	©	0		72×72	
PA666-3		•	0	0		96×96	
PA666-4		•	©	0		48×48	
PA666-6		•	0	0		80×80	LED
PA666-8		•		0		120×120	Display
PZ666-1	•		0	0	0	96×48	
PZ666-2	•		©	0		72×72	
PZ666-3	•		0	0	0	96×96	
PZ666-4	•		©	0		48×48	
PZ666-6	•		0	0		80×80	
PZ666-8	•			0		120×120	

Note: • Means the intrinsic functions of the instrument.

[®] Means extendible corresponding optional functions of this series of instruments.

PA/PZ666-□ series Three Phase Digital Ammeter, Voltmeter



Three Phase Digital Ammeter



Three Phase Digital Voltmeter

Main Functions and Characteristics

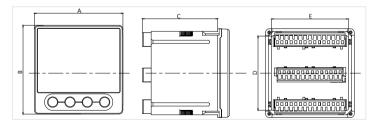
- Real-time measurement and indication for the phase current and voltage value of the power circuit.
- Extensible analog output function, current range 4~20mA, 0~20 mA, 0~10 mA selectable.
- Extensible relay switch output function, upper and lower alarm output can be realized.
- Extensible RS485 communication interface, according to MODBUS-RTU communication protocol, and baud rate can be set.

Technical Parameters

Item	Specification
Voltage	AC 100V, 450V, other special specifications can be custom-made
Current	AC 3×1A, AC3×5A, other special specifications can be custom-made
Frequency	45Hz~65Hz
Accuracy class	Class 0.5
Auxiliary power supply	220VAC±20%, AC/DC85-264 switch power supply customizable
Operation temperature range	Operation temperature range: -25°C \sim 55°C, limit operation temperature range: -40°C \sim 70°C
Power consumption	≤2W/10VA
Display mode	LED display

External and Installation Dimensions

Model	Panel dimension (A×B) Main part dimension (E×D)		Depth (C)	Hole spacing dimensions (W× H)
P-2	72×72	66×66	90	68×68
P-3	96×96	90×90	90	92×92
P-4	48×48	44×44	110	45×45
P-6	80×80	75×75	90	76×76
P-8	120×120	112×112	90	114×114



PA/PZ666-□ series Three Phase Digital Ammeter, Voltmeter

Model Specification and Selection Description

Units: mm

	Measurement display Three phase		Т	K Switch	В	External	
Model			RS485 communication	signal output	Analog signal output	dimension	Display mode
PA666-2S		•	0	0	0	72×72	
PA666-3S		•	©			96×96	
PA666-4S		•				48×48	
PA666-6S		•	©			80×80	
PA666-8S		•	0	0	0	120×120	LED
PZ666-2S	•		0	0		72×72	Display
PZ666-3S	•		0	0	0	96×96	
PZ666-4S	•					48×48	
PZ666-6S	•		0	0	0	80×80	
PZ666-8S	•			0		120×120	

Note: • Means the intrinsic functions of the instrument.

[®] Means extendible corresponding optional functions of this series of instruments.

PD666- □ series Three Phase Digital Multi-function Meter



LCD Display



LED Display

Main Functions and Characteristics

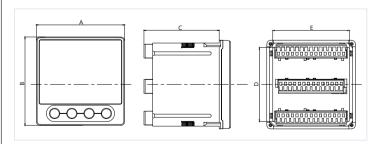
- LED and LCD display function.
- Measurement three phase current, voltage, active power, reactive power, power factor, frequency, import and export active energy, four quadrant reactive energy.
- RS485 communication interface, it according to MODBUS-RTU communication protocol, and baud rate can be set.
- Extensible switch input function.
- Extensible analog output function, current range 4~20mA, 0~20 mA, 0~10 mA selectable.
- Extensible relay switch output function, upper and lower alarm output can be realized.

Technical Parameters

Item	Specification
Voltage	AC 100V, 450V
Current	AC 3×1A, AC3×5A
Frequency	45Hz~65Hz
Accuracy class	Class 0.5
Auxiliary power supply	AC/DC85-264 switch power supply
Operation temperature range	Operation temperature range: -25° C $\sim 55^{\circ}$ C, limit operation temperature range: -40° C $\sim 70^{\circ}$ C
Power consumption	≤2W/10VA
Display mode	LCD or LED display

External and Installation Dimensions

Model	Panel dimension (A×B)	dimension		Hole spacing dimensions (W× H)
P-2	72×72	66×66	90	68×68
P-3	96×96	90×90	90	92×92
P-6	80×80	75×75	90	76×76
P-8	120×120	112×112	90	114×114



PD666- □ series Three Phase Digital Multi-function Meter

Model Specification and Selection Description

Units: mm

	Measurement display					En	ergy	<u>-</u>	К				
Model	Voltage	Current	Active power	Reactive power	Power factor	Frequency	Active energy	Reactive energy	RS485 communication	Switch signal output	B Analog signal output	External dimension	Display mode
PD666-2S3	•	•	•	•	•	•	•	•	•	0	0	72×72	
PD666-3S3	•	•	•	•	•	•	•	•	•	0	0	96×96	LCD
PD666-6S3	•	•	•	•	•	•	•	•	•	0	0	80×80	Display
PD666-8S3	•	•	•	•	•	•	•	•	•	0	0	120×120	
PD666-2S4	•	•	•	•	•	•	•	•	•	0	0	72×72	
PD666-3S4	•	•	•	•	•	•	•	•	•	0	0	96×96	LED
PD666-6S4	•	•	•	•	•	•	•	•	•	0	0	80×80	Display
PD666-8S4	•	•	•	•	•	•	•	•	•	0	0	120×120	

Note: • Means the intrinsic functions of the instrument.

[®] Means extendible corresponding optional functions of this series of instruments.





HEADQUARTER

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