



CHS120 Single Phase Smart Meter

ALTITUDE series

- ▶ DLMS/COSEM Protocol
- ▶ Flexible Installation
- ▶ Multiple Communication
- ▶ Prepaid/Postpaid Mode Switch



CHINT GLOBAL PTE. LTD.
Building A3, 3655 SiXian Road,
Songjiang District, Shanghai, China

Tel: +86-21-5677 7777
Web: www.chintglobal.com
E-mail: global-sales@chintglobal.com

A CHNT COMPANY

CHS120 Single Phase Smart Meter

SPECIFICATIONS

Measurement

- Compliance with IEC and EN standard
- Connection type: 1P2W, 1P3W
- Accuracy: Class 1.0 for active, Class 2.0 for reactive

Voltage

- Nominal voltage (U_n): 110V, 120V, 220V, 230V, 240V
- Operating range: $0.5U_n \sim 1.3U_n$
- Power consumption: $\leq 2W$, 10VA

Current

- I_b : 5/10A
- I_{max} : 60/80/100A

Frequency

- 50Hz or 60Hz

Real-time Clock

- Accuracy within 0.5 seconds per day at 23°C

LCD Display

- 8 characters of 7 segment display
- Digital size: 5mm $\times$ 10mm
- LCD display available without main power
- With backlight

Battery (Optional)

- Battery easy replaced
- Voltage: 3.6V
- Backup time: 10 years with power

Measured Values

- Import/Export/Absolute/Algebraic kWh
- Import/Export/ kvarh
- Instantaneous kW, kvar, kVA, Irms, Vrms, Frequency, Power factor

Maximum Demand

- Maximum demand: kW, kvar
- Intervals programmable from 5 to 60 minutes

Time of Use

- Up to 4 rates
- Up to 4 seasons each year
- Up to 4 week table
- Up to 8 day table
- Up to 8 Time intervals per day

Relay (Optional)

- Relay for phase line and neutral line
- Up to 10000 operations

Keypad (Optional)

- 4 x 3 matrix keypad

Event Logs

- Standard event, tamper event, control event, grid event
- Configurable event alarming system

Load Profile

- Up to 4 channels
- Over 4800 records per channel

Communications

- Optical port / RS485
- Uplink: G3-PLC/GPRS/4G/Wi-SUN module
- Downlink: Mbus/RF
- Protocol: DLMS/COSEM

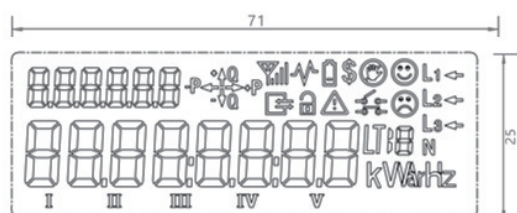
Environmental

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

Dimensions and Weight

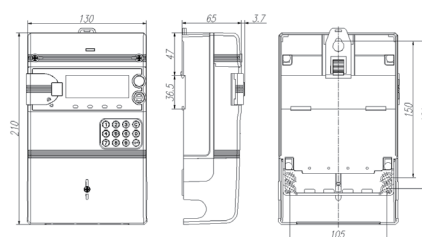
- Dimensions: 210mm $\times$ 130mm $\times$ 65mm
- Weight: 0.7 kg (Approx.)

LCD INDICATION



- Units: mm

METER DIMENSIONS



- Units: mm



Zhejiang CHINT Instrument & Meter Co., Ltd

Add: No.560, Yueming Road, Binjiang District, Hangzhou, Zhejiang, China P.C: 310052 Tel: +86-571-56977777

Fax: +86-577-62919588 E-mail: chintmeter@chint.com

Website: <http://en.chintim.com/>