



## CHS320 Three Phase Smart Meter

### ALTITUDE series

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



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A CHNT COMPANY

# CHS320 Three Phase Smart Meter

## SPECIFICATIONS

### Measurement

- Compliance with IEC and EN standard
- Connection type: 3P4W
- Accuracy: Class 1 for active, Class 2 for reactive

### Voltage

- Nominal voltage (Un):  
Direct connection:  $3 \times 220/380V \sim 3 \times 240/415V$   
Indirect connection:  $3 \times 57.7/100V$
- Operating range:  $0.5U_n \sim 1.3U_n$
- Power consumption:  $\leq 2W, 10VA$

### Current

- Ib  
Direct connection: 5/10A  
Indirect connection: 1/5A
- Imax:  
Direct connection: 80/100A  
Indirect connection: 6/10A

### 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 with backlight
- Digital size: 7.5mm  $\times$  15mm
- LCD display available without main power

### 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

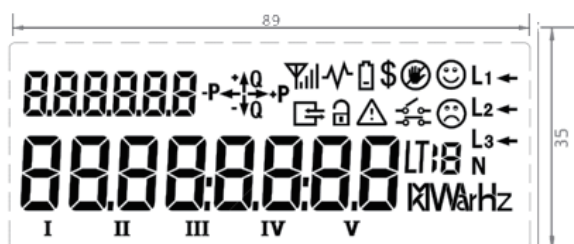
### Environmental

- Operating range limit:  $-40^{\circ}C$  to  $+70^{\circ}C$
- Storage range limit:  $-40^{\circ}C$  to  $+80^{\circ}C$
- Relative humidity:  $\leq 95\% RH$
- Ingress protection: IP54

### Dimensions and Weight

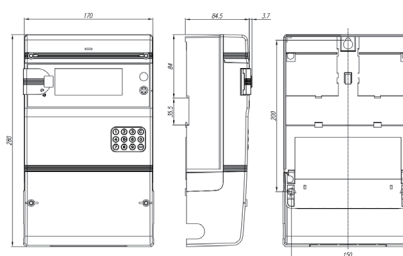
- Dimensions: 280mm  $\times$  170mm  $\times$  84.5mm
- Weight: 1.8 kg (Approx.)

## LCD INDICATION



• Units: mm

## METER DIMENSIONS



• Units: mm



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