

# NC30

**ABACUS** – Class 0.5 and Class 1

Single Phase  
Smart ANSI Meter

EDMI presents its single phase smart ANSI meter, the NC30. The ANSI compliant meter is designed to supply a comprehensive portfolio of revenue-grade features. NC30 has the ability to render an optional disconnect function and has the competency to offer multiple communications option. It has also the capability of storing meter data up to 12 months of its history.



## Key Features

AMI

AMI READY



DISCONNECT  
RELAY



MULTIPLE COMMS  
OPTIONS



LARGE LCD  
DISPLAY



MEASURE  
EVERYTHING



UPGRADEABLE



ANTI TAMPER

# NC30

**ABACUS** - Class 0.5 and Class 1

Single Phase  
Smart ANSI Meter



Weight: 0.9kg

## Standards and Compliance

- Class 0.5 and Class 1
- ANSI C12.1, C12.10, C12.18, C12.19 and C12.20

## Measurement

- FM1S: 1 phase 2 wire
- FM2S: 1 phase 3 wire

## Voltage

- Nominal voltage: 110 - 120V, 220 - 240V
- Operating range: 0.75Un - 1.9Un
- Burden: <1W, 5VA

## Current

- CT range: 15/100A, 30/200A
- CT limit: 30 x I<sub>max</sub> for 0.5 seconds
- Shunt: 15(100)A
- Burden: <0.25VA for CT, <1W for shunt

## Frequency

- 50Hz or 60Hz

## Relay

- Disconnect relay options

## Battery

- Internal battery
- Voltage: 3.6V nominal
- Backup time: 10 years with power (Lithium Battery)

## Real-time Clock

- Accuracy within 0.5 seconds per day at 23°C

## Display

- Large 7 segment display
- Display size: 13mm x 6mm
- Up to 26 user-defined screens of any parameter
- Display available without main power

## Measured Values

- Import/Export/Absolute Wh
- Instantaneous kW, I, V
- Power factor, frequency, phasor angles
- Maximum demand

## Time of Use

- Up to 4 rates plus unified, 8 intervals
- Programmable rates for workday and weekend day
- Up to 10 seasons each year
- Up to 2 schedules each season
- Automatic monthly billing reset
- Storage of 12 billing reset data plus current

## Event Logs

- Total 50 events with time date and time stamp
- Power on/off, reset event data, reset energy data
- Time of demand

## Security

- 2 levels of password
- Level 1 for reading and writing; level 2 for reading only

## Communications

- Optical port: ANSI Type, 9600bps
- Isolated RS-485
- RF module: 433Mhz - 915MHz, optional

## Environmental

- Specified operating range:  
-40°C to +70°C
- Operating range limit:  
-45°C to +75°C
- Storage range limit:  
-45°C to +80°C
- Relative humidity:  
Up to 75% mean, 95% non-condensing for 30 days
- Ingress protection: IP54

## EDMI Limited (Headquarters)

47 Yishun Industrial Park A, Singapore 768724

Tel: +65 6756 2938 Fax: +65 6756 0125

Email: [marketing@edmi-meters.com](mailto:marketing@edmi-meters.com)

[techsupport@edmi-meters.com](mailto:techsupport@edmi-meters.com)

[www.edmi-meters.com](http://www.edmi-meters.com)

