

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

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 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 Imax 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

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