



EC320CM



EC320CD



EC330CM



EC330CD

## Rail Mount Meters (Class I)

Ecolec Rail Mount Meters									E2
Type	Phase	Voltage	Frequency	Rating	Escutcheon	No. of Modules	Std Pack	Price ea.	Order No.
EC320CM	1 + N	230	50	5(80) Amps	57 mm	2	6	685.00	EC320CM
EC320CD	1 + N	230	50	5(80) Amps	45 mm	2	6	685.00	EC320CD
EC330CM	3 + N	230/415	50	5(80) Amps	57 mm	4	3	1 934.00	EC330CM
EC330CD	3 + N	230/415	50	5(80) Amps	45 mm	4	3	1 934.00	EC330CD

<sup>1</sup> Standard discounts are not applicable. Contact CBI for discount structure

### Ordering Information

Product Description	Single Phase Direct Connect	Three Phase Four Wire	Shell Colour		Escutcheon Height
Mini rail 230 V / 50 Hz	EC320CM	EC330CM	Black		57 mm
DIN rail 230 V / 50 Hz	EC320CD	EC330CD	Grey		45 mm
Qty per std pack	6	3		Shrink Wrap Carton	
Meter width	26 mm	52 mm		Carton 178 mm wide	
Meter height	107 mm	107 mm		Carton 68 mm high	
Meter depth	66 mm	66 mm		Carton 110 mm high	
Mass / std pack	1060 g	1150 g			

### Rail Mount Meter

The Rail Mount Meters are based on a meter module width of 13 mm with the single phase being 2 Modules and the three phase 4 Modules. The meter uses an intergral current transformer as a measuring element and will count positive no matter from which direction the current is drawn. The display is a conventional cyclometer. The range includes Mini and DIN rail mounting, 230 V, 50 Hz.

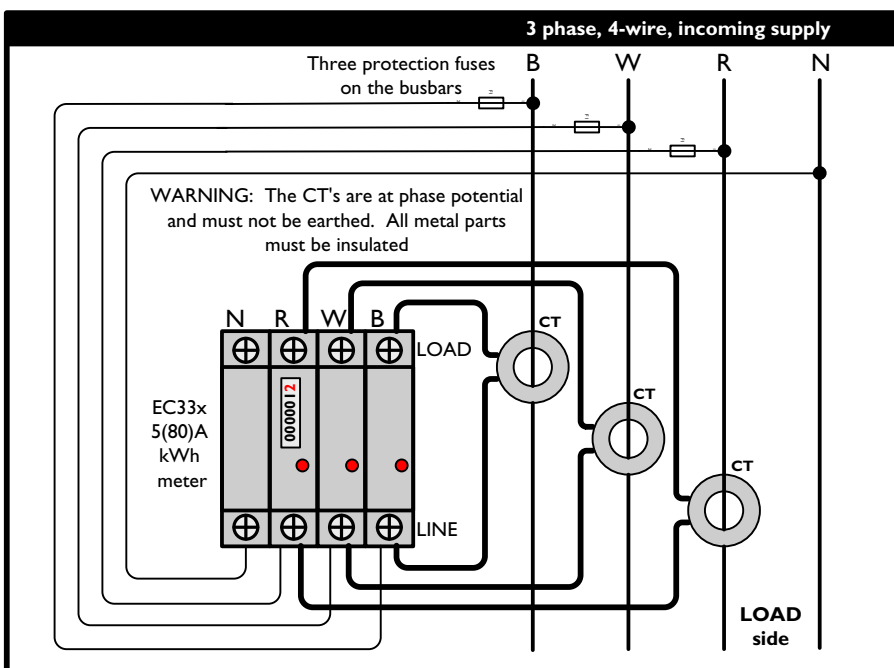
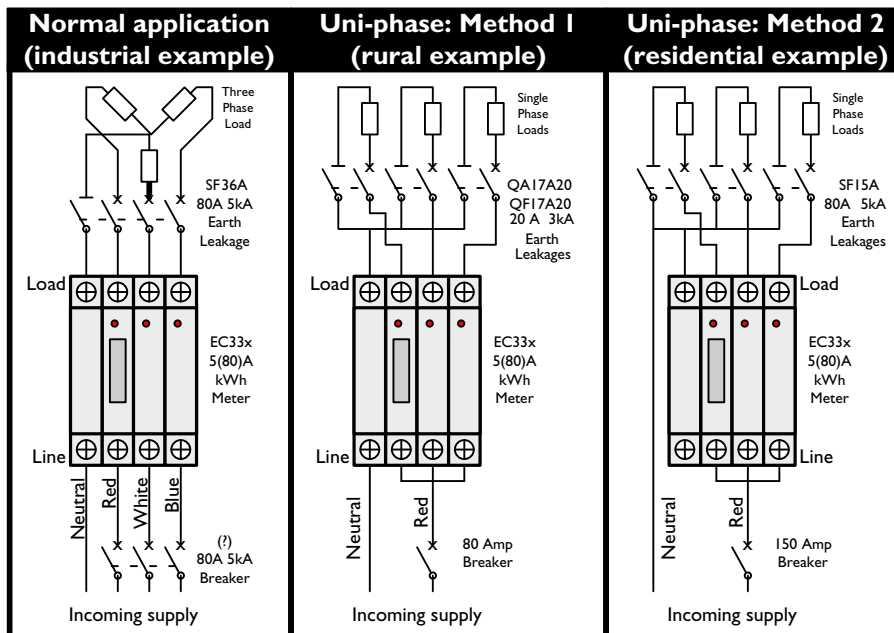
### Features

- IEC 61036 Class I electricity meters
- Single and three phase versions
- Fits all Mini and DIN rail Distribution Boards
- 7 Digit indication of energy consumed to 1 / 10 kWh
- Dual colour lamp shows rate of consumption and/or confirms presence of incoming supply
- Supplied with anti-tamper protection plugs
- Also available in 120 V / 60 Hz

### LED Indications

Led Indication	Reason Description
Pulses RED	Normal Consumption Pulses (1000 pulses per Kilo Watt Hour)
Pulses GREEN	Low Load Condition (Consumption is less than 30 Watts)
Solid GREEN	No Load (Meter is powered up)
Pulses ORANGE	Abnormal Load (Supply Voltage is between 265 - 460 V or 60 - 90 V AC)
Solid ORANGE	Unsafe Load Condition (the current being drawn is greater than 125 A or the supply voltage is greater than 460 V AC)
Solid RED	Error Condition (the meters internal built In test has failed)
No LED	No LED Indication (the supply voltage is less than 60 V AC)

## Rail Mount Meters



**Do Not Earth CTs !**

### EC 300 series kWh consumption when using external CTs

There is a requirement to measure loads in excess of the meters maximum current rating of 85 Amps. This can be done by using external CTs.

The actual kWh consumption per phase can be calculated by multiplying the CT ratio being used by the difference between the current and previous meter reading.

Eg: For a 200/5 CT ratio the factor is 40.

Therefore the consumption per phase = 40 x kWh consumption.

For CT Selection, please refer to the NRS057 specification parts 1, 2 and 4.

**Note: Do not earth CTs fitted above.**

### Product Approvals

- SANS IEC 61036 test report MTR/BB0630-SR
- 5(80) A
- SANS 1799



1 Phase 2 Wire (20 - 80 A)



3 Phase 4 Wire (5 A)



3 Phase 4 Wire (40 - 100 A)



3 Phase 4 Wire (80 - 160 A)

## Rotating Disc Meters (SABS Approved)

Watt-Hour Meters			P
Description	Std Pack	Price ea.	Order No.
1 Phase 2 Wire 20 - 80 A with encapsulated coils	1	617.00	BF36-20/80
1 Phase 2 Wire 20 - 80 A with encapsulated coils (calibrated <sup>1</sup> )	1	679.00	BF36-20/80-C
3 Phase 4 Wire 40 - 100 A (calibrated <sup>1</sup> )	1	2 189.00	MH36G-40-C
3 Phase 4 Wire 80 - 160 A (calibrated <sup>1</sup> )	1	2 304.00	MH36G-80CER
3 Phase 4 Wire 5 A (calibrated <sup>1</sup> )	1	1 985.00	MH36-5A-C

**PRODUCT APPROVAL**  
**SABS 1607 / IEC 521**

**Note:**

<sup>2</sup> Certification available on request.



## NEW PRODUCT INTRODUCTION NANOVIEW



NanoView			LI
Description	Std Pack	Price ea.	Order No.
NanoView	I	1537.00	NVFP001
Water Meter Blister Pack (NanoWater)	I	583.00	WMBP001
Current Transformer (CT)	I	122.00	CTBP001

### Features

- Real time and accumulated consumption of up to 16 circuits and 4 water meters
- User selectable names to identify circuits:
  - Plugs
  - Lights
  - Geyser
  - Stove
  - Outbuilding (Flatlet, Lapa)
  - Pump (Pool, Borehole, A/C)
  - Water
  - Total
- Consumption graphs for each circuit and water meter every:
  - hour for the last 7 hours
  - day for the past week
  - week for the past 7 weeks
  - month for the past 7 months
  - calendar year for up to 5 years
- Power and water consumption conversion to Rand and Cent to track savings
- Modern touch button interface (iPod® inspired)
- Real time high consumption warning LED
- Large 5" (127 mm) LCD display

### Technical Specifications

- Electricity:
  - Up to 16 power circuits
  - Sensor measuring range: 5 W - 14 kW (60A max)
  - Power sensor accuracy 99% (Class I)
  - Operating Voltage 230 V AC  $\pm$  20%, 50 Hz
  - 1 Second refresh rate
  - 24 hour battery backup for time keeping
  - Consumption data saved indefinitely during power failures
- NanoWater:
  - Up to 4 water meter transmitters
  - Water meter range up to 100 m
  - 3 year battery life (displayed)
  - 1 litre accuracy
  - Compatible with the popular water meter brands:
    - Elster Kent VII 0
    - Precision Meters ASM
    - and most reed switch capable brass and plastic water meters
- Certification: SANS 60950
- ICASA type approved