

Compact DIN Rail kWh Meter



Key benefits

- Compact DIN rail mount reduces enclosure costs
- Low power consumption minimises utility energy losses
- Reverse connected meter measures consumption correctly
- Superior sensitivity for low power applications
- Robust performance suitable for rural conditions
- Fully electronic design requires no maintenance or calibration
- Absence of electronic storage eliminates meter data corruption
- Built-in self test, warning and failure indication
- Tamper resistant terminal covers with optional grommets, reduces losses
- Pulse output LED displays status indication

Performance criteria

Storage temperature	-	-25°C to 80°C
Overvoltage category	-	IEC 664-1, category IV
Housing	-	IEC 529, IP51 indoor
Shock	-	IEC 68-2-27, 30g
Vibration	-	IEC 68-2-6, 10-150Hz
Humidity	-	IEC 68-2-30, 6 cycles @ 60°C
Salt Mist	-	IEC 68-2-11
Solar radiation	-	IEC 68-2-5, procedure A

Application Notes (Available on the ASI website, www.asi-ez.com)

- AN001 - Using the ECOLEC Series 100 dual and three phase meters as uni-phase meters
- AN002 - Using the SLMS output of the ECOLEC Series 100 meters
- AN003 - Using the ECOLEC Series 100 meters as a CT operated meter
- AN004 - Characteristics and usage guidelines for ECOLEC Series 100 meters

Ordering information

Product Description	Single phase direct connect	Dual phase three wire	Three phase four wire	Shell color	Panel height
Din-rail 120V/240V	EC111 00	EC121 00	EC131 00	Grey	45mm
Din-rail 277V/480V		EC122 00A	EC132 00A	Grey	45mm
Qty per std pack	6	4	3	Shrink wrap carton	
Meter width	26mm	39mm	52mm	Carton 178mm wide	
Meter height	107mm	107mm	107mm	Carton 68mm high	
Meter depth	66mm	66mm	66mm	Carton 110mm deep	
Mass/std pack	1 060g	1 080g	1 150g		

SPECIFICATIONS

- **Operational Voltage Range**
120/240V, 208Y120V, 480Y277V
- **Overvoltage Withstand**
600V for 48 hours
- **Impulse Voltage Withstand**
10kV, 1.2/50µs waveform
- **Maximum Rated Current (Imax)**
60 Amps
- **Operational Current Range**
0.1 to 90 Amps
- **Internal Power Consumption**
Less than 0.2 Watts
- **Fault Current Withstand**
5kA for 10mS
- **Overcurrent Withstand**
120 Amps for 48 hours
180 Amps for 1 minute
- **Operational Frequency Range**
60 Hz ±10%
- **Test Output Flash Rate**
1000 impulses per kWh
- **DC Voltage Withstand**
1000V for 1 minute
- **Operating Temperature**
-10°C to 60°C