

# Etto

## Single phase electrical energy counter

**Etto** is a microprocessor based electrical energy counter with pulse output. Etto can be sealed with a tamper proof kit provided with the instrument. Performs the measure of the active energy on a single phase network with direct connection up to 32A. Readings are RMS values measured by a digital circuit guaranteeing maximum precision, reliability and stability over time.



- Display on 7-digit electromechanical meter
- Tamper proof kit
- Self powered from input voltage
- LED to show the consumed energy
- Pulse output for the transmission of the active energy
- Class 1 (kWh) according to EN62053-21
- RMS measurement up to the 16<sup>th</sup> harmonics
- Direct current input
- Easy to install and friendly in use
- DIN rail mounting version

### Technical Specification

#### Hardware Characteristics

Power Supply ..... Self powered from the voltage input (180 – 270 Vac)  
 Voltage Input ..... 180 - 270 Vac  
 Current Input ..... direct 5 (32) A  
 Impedance on input ..... 1,5 MOhm  
 Precision ..... Class 1 on active energy according to EN62053-21  
 Measure ..... R.M.S. up to 16th harmonics  
 Pulse output ..... Opto-isolated. 100 impulse / kWh according to DIN43864  
 LED..... red LED. 1600 impulse /kWh  
 kWh indicator..... 7-Digit Electromechanical (2 decimal)  
 Weight ..... 100 gr.ca.  
 Insulation..... according VDE 0110 group C for exercise tension of 500Vac RMS or VDE 0110 group B for exercise tension equal or lower of 250 VAC RMS phase-neutral

#### Working conditions

Working temperature..... -10/+50 °C  
 Relative Humidity ..... 90% without condensation

#### Mechanical Characteristics

Case ..... Self-extinguish plastic  
 Protection degree (front)..... IP40  
 Size: 2 DIN modules ..... 36 x 90 x 58 mm  
 Mounting ..... on DIN rail  
 Terminals ..... screw clamps  
 Maximum cable section ..... 2,5 mm<sup>2</sup> (strained wire) 4 mm<sup>2</sup> (hard wire)

This device comply to the following regulation:  
 EMC 89/336/EEC and obey to the following requirements:  
 EMISSION = EN 50081-1 1992 EN5022 CLASS B, CISPR 22;  
 IMMUNITY = EN 50082-1 1992 (light industry);  
 SECURITY=EN61010

#### Ordering Code

Type	Code
ETTO D2 230-240V ENERGY COUNTER ... PFAA280-C2	

Prior to modification without notice

Etto Data Sheet 2008 05 29 UK

Distributor
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