

Technical Information

Power supply	<ul style="list-style-type: none"> Power supplied from the voltage circuit Nominal measurement voltage $\pm 20\%$ Max consumption (for each phase): 7.5 VA - 0.5 W Nominal frequency: 50/60 Hz
Voltage - (Nominal values)	A) 3x230/400 V 50 Hz D) 3x230/400 ÷ 3x240/415 V 50/60 Hz
Current	<ul style="list-style-type: none"> Starting Ist: 20 mA Minimum Imin: 250 mA Transitional Itr: 500 mA Reference Iref (Ib): 5 A Maximum Imax: 80 A
Accuracy (Energy)	<ul style="list-style-type: none"> Active class 1 according to IEC/EN 62053-21 (NO MID) Active class B according to EN 50470-3 (MID) Reactive class 2 according to IEC/EN 62053-23
SO outputs	<ul style="list-style-type: none"> 2 passive optoisolated Maximum values: 250 VAC-DC - 100 mA Meter constant: 100 imp/kWh The measuring unit (imp/kWh, imp/kvarh, imp/kVAh) changes according to the assigned counter (kWh, kvarh, kVAh) Pulse length: 50 ± 2ms
Tariff input	<ul style="list-style-type: none"> Active optoisolated Voltage range for tariff 2: 80 ... 276 VAC-DC
Metrological LED	<ul style="list-style-type: none"> Meter constant: 1,000 imp/kWh Pulse length: 10 ± 2ms
Working conditions	<ul style="list-style-type: none"> Operative: -25°C ÷ +55°C Storage: -25°C ÷ +75°C Humidity: 80% max without condensation
Sealing	IP51 frontal - IP20 terminals
Dimensions	90 x 720 x 64mm



80A three phase programmable energy meter.

The **EC3-80** is a four DIN modules energy meter for the energy measurement in industrial and civilian application, available with MID certification suitable for billing. Combined with different external modules, the meter can communicate with other systems. COM modules are available for the most common field protocols.

Besides the energy, the meter can measure the main electrical parameters and makes them available on the IR port. The LCD display shows the energies and the instantaneous powers.

The meter is built according to EN 50470-1 standard. The active energy is compliant to IEC/EN 62053-21 class 1, but for MID certified device it moreover fulfills class B requirements according to EN 50470-3. The accuracy of reactive energy is compliant to IEC/EN 62053-23 class 2.

Wide backlighted LCD display with clear graphic symbols comprehensible at a glance.

Metrological LED on front panel and sealable terminal covers.

Available versions with different voltage working range for the connection on 3 or 4 wire network, suitable for balanced or unbalanced loads.

The analysis of the MTBF values, the accurate selection of components and the reduction of the internal working temperatures together with strict production and control standards guarantee a product with an excellent quality and a long lasting reliability.

Applications

- Totalization of the electric energy in the industry for each single line or machine.
- Measurement of energy generated by renewable sources such as solar, eolic, etc.
- Accounting and billing of consumptions in camp sites, malls, residential areas, naval ports, etc.
- Totalization of the electric consumption in hotels, congress centers, exhibition fairs.
- Accounting of the consumptions in buildings with executive office services.
- Internal allocation of the consumptions in timeshare civilian and industrial buildings.
- Realization of energy monitoring systems.
- Remote survey of the consumptions and compute of the costs

Benefits

- Up to 30 instantaneous measurements, complete set of energy counters with 2 tariffs total and partial counters. Moreover partial counters can be started, stopped or reset.
- Phase sequence and diagnostic function for error signalling in case of wrong polarity connection.
- Available MID according to Swiss market (MID S). Reactive energy is not shown on energy meter display

The features shown may be subject to change without notice.