



## 410-QD1A-90B10-TRIPLE TARIFA-3.0A

410-QD1A-90B10-TRIPLE TARIFA-3.0A, Three-phase energy meter indirect connection

Code: QB4B0D01

- > Type Consumer: 4
- > Communications: RS-232 | RS-485
- > Class (Active/Reactive): B (1) / 2
- > System: Three-phase
- > Measure: Indirect
- > Measurement Range (V): 3x230/400
- > Measurement Range (A): 10 (100)
- > Quadrants: 4
- > Frequency (Hz): 50

### Specifications

#### AC power supply

Tolerance	80 % ... 115 % Un
Consumption	< 2 W; < 10 VA
Frequency	50 / 60 Hz
Nominal voltage	3 x 230 (400) V - 3 x 127 (230) V

#### Battery specification

Performance-guarantee	> 20 years @ 30 °C
Type	Lithium

#### Mechanical characteristics

Size (mm) width x height x depth	172 x 255 x 67 (mm)
Envelope	DIN 43859
Weight (kg)	1,1

#### Environmental characteristics

Relative humidity (without condensation)	95 % max.
Storage temperature	-40 ... +85 °C
Working temperature	-40 ... +70 °C

#### Voltage measurement circuit

Connection	Asymmetrical
Consumption	< 2 W; 10 VA
Nominal frequency	50 / 60 Hz
Nominal voltage	3 x 230/400 V (Request for other configurations)

#### Current measurement circuit

Consumption	< 0,1 V·A
Reference current (Iref)	10 A
Maximum current	100 A



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Minimum current measurement < 0,5 x Itr

### Communications

Protocol REE, basado en IEC 870-5-102  
Type RS-232 / RS-485

### Optical communication interface

Hardware IEC 62056-21  
Protocol REE, based on IEC 870-5-111  
Type Serial;bi-directional

### User interface

Resolution of the display up to 8 digits (8 mm)  
Display type LCD

### Memory

Memory capacity Data: non-volatile memory, Setup and events: serial-flash  
Write time 4000  
Type Serial flash

### PLC

Hardware CENELEC A or CENELEC B  
Protocol CirPLC & PEP (PLC Encapsulated Protocol)  
Modulation system DSKK with repeater system

### Measurement accuracy

Reactive energy measurement (kvarh) IEC 62053-23 (Class 2)  
Active energy measurement (kWh) EN 50470 (Class B) IEC 62053-21 (Class 1)

### Features / performance

Billing closures 12 locks per contract. Programable date and hour  
Load curve 2 load curves, programmable integration time (1 ... 253 min)  
Optional Communications: RS-232 / PLC, RS-485 / PLC, RS-232 / RS-232, RS-485 / RS-485, RS-232 / RS-485, RS-232 / Ethernet, R-485 / Ethernet. Expansion boards: No inputs / outputs, 4 relay outputs (Rate Indicator), 2 relay inputs / 4 pulse outputs, 4 pulse inputs, Differential current measurement, 2 relay outputs / 2 pulse outputs, / 2 pulse inputs  
Tariff programming 12 days 10 types of data 9 types of tariffs 30 public holidays 12 special days

### Clock

Source Temperature compensated oscillator  
Accuracy (EN 61038) < 0,5 s / day (23 °C)  
Type Gregorian calendar



## 410-QD1A-90B10-TRIPLE TARIFA-3.0A

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### CIRWATT -KIT-ENDESA

Three-phase energy meters indirect connection

CODE	TYPE	Measurement Range (V)	Measurement Range (A)	Communications	Class (Active/Reactive)	System	Measure
<b>CIRWATT B 410D</b>							
QB4B0D01	410-QD1A-90B10-TRIPLE TARIFA-3.0A	3x230/400	10 (100)	RS-232   RS-485	B (1) / 2	Three-phase	Indirect
QB4B0D60	410-QD1A-90B10-TRIPLE TARIFA-3.0TD	3x230/400	10 (100)	RS-232   RS-485	B (1) / 2	Three-phase	Indirect
<b>CIRWATT B 410T</b>							
QB870T21	410-QT5A-90B10-TRMC210-100-3.0.TD	3x230/400	.../5	RS-232   RS-485	B (1) / 2	Three-phase	Indirect
QB870T22	410-QT5A-90B10-TRMC210-200-3.0.TD	3x230/400	.../5	RS-232   RS-485	B (1) / 2	Three-phase	Indirect
QB870T23	410-QT5A-90B10-TRMC210-500-3.0.TD	3x230/400	.../5	RS-232   RS-485	B (1) / 2	Three-phase	Indirect
QBK10T24	405-VT5A-90B10-TRMC400-1000-3.0.2	3x230/400	.../5	RS-232   RS-485	B (1) / 2	Three-phase	Indirect



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## Dimensions

