



410-QD1A-B0B10, Three-phase energy meters direct connection

Code: QB4N0D22 **DESCATALOGADO** 

> Type Consumer: 4 > Discon. relay: No

> Communications: RS-232 | PRIME

> N° relays: 0

> Class (Active/Reactive): B (1) / 2

> System: Three-phase

> Measure: Direct

> Measurement Range (V): 3x230/400 > Measurement Range (A): 10 (100)

> Quadrants: 4

> Frequency (Hz): 50

#### Description

The Cirwatt B 410DP is a digital multifunction three-phase class-B/Class-1 meter for active energy and Class-2 for reactive energy. This meter complies with the international IEC 62053-21 and IEC 62053-23 standards, and with the European regulations on energy meters, EN 50470-1 and EN 50470-3 (MID), which allows them to be installed in any European Union country.

It features PLC (Prime Line Carrier) PRIME communications via the electrical grid, as well as an optical port and an RS-232 port for remote management via a GSM/3G modem. Both communications use the DLMS protocol.

It also has a logger for up to 3 months of time records for the 6 types of energy. It also allows the data to be read in the absence of voltage.

It includes a circuit breaker, which allows the user to control the electricity demand, which can be managed remotely using PLC communications.







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### **Specifications**

	80 % 115 % Un
	< 2 W; < 10 VA
	50 / 60 Hz
е	3 x 230 (400) V
tion	
uarantee	> 20 years @ 30 °C
	Lithium
octeristics	
h x height x depth	172 x 255 x 67 (mm)
	DIN 43859
	1,6
naracteristics	
ity (without condensation)	95 % max.
rature	-40 +85 °C
rature	-40 +70 °C
ment circuit	
	Asymmetrical
	< 2 W; 10 VA
ency	50 / 60 Hz
е	3x230/400 V
ment circuit	
	< 0,1 VA
ent (Iref)	10 A
ent	100 A
nt measurement	< 0,5 x ltr
cation interface	
	IEC 62056-21
	DLMS
	Serial;bi-directional
he display	up to 8 digits (8 mm)
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Display type	LCD
Memory	
Memory capacity	Data: non-volatile memory, Setup and events: serial-flash
Write time	90 days
Туре	Serial flash
PLC	
Hardware	CENELEC
Protocol	DLMS / PRIME
Modulation system	OFDM
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	1 load curves, programmable integration time (1 60 min)
Tariff programming	12 days 24 types of data 6 types of tariffs 30 public holidays
Clock	
Source	Temperature compensated oscillator
Accuracy (EN 61038)	< 0,5 s/day (23 °C)
Туре	Gregorian calendar







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#### Dimensions Connections





