



## 402-MT5A-A0B10

402-MT5A-A0B10, Three-phase energy meter indirect connection

Code: QBP1B.

- > Type Consumer: 1
- > Communications: RS-232 | Ethernet
- > Class (Active / Reactive): 0.2S/0.5
- > System: Three-phase
- > Measure: Indirect
- > Measurement Range (V): 3x63,5/110
- > Measurement Range (A): .../5
- > Quadrants: 4
- > Frequency (Hz): 50

### Description

CIRCUITOR's CIRWATT-B410T is a standard three phase indirect meter. It is the result of all the technological developments which is experiencing the current market. These changes have created new needs and requirements both in terms of more flexible rates, new communication system and price optimization. Providing to the market a robust and competitive meter fully complying with the new European Directive MID (EN 50470) and all the relevant IEC's.

### Application

CIRWATT-B410T is suitable to be installed in LV and MV networks being the best solution or installations with high and medium consumptions like shopping malls, industries and high consumption households.



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Standard three-phase meter with indirect connection

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### Specifications

#### Mechanical characteristics

|                                  |                     |
|----------------------------------|---------------------|
| Size (mm) width x height x depth | 172 x 255 x 67 (mm) |
| Weight (kg)                      | 0,67                |

#### Communication Network

|                   |                              |
|-------------------|------------------------------|
| Protocol          | REE, basado en IEC 870-5-102 |
| Technology / Type | Ethernet                     |

#### Serial communication

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

#### CIRWATT BIII-T

Three-phase energy meters indirect connection

| CODE                  | TYPE           | Measurement Range (V)  | Measurement Range (A) | Communications    | Class (Active/Reactive) | System      | Measure  |
|-----------------------|----------------|------------------------|-----------------------|-------------------|-------------------------|-------------|----------|
| <b>CIRWATT B 502</b>  |                |                        |                       |                   |                         |             |          |
| QBP1P.                | 402-MT5A-70B10 | 3x63,5/110             | .../5                 | RS-232   RS-232   | 0.2S/0.5                | Three-phase | Indirect |
| QBP1A.                | 402-MT5A-90B10 | 3x63,5/110             | .../5                 | RS-232   RS-485   | 0.2S/0.5                | Three-phase | Indirect |
| QBP1Q.                | 402-MT5A-80B10 | 3x63,5/110             | .../5                 | RS-485   RS-485   | 0.2S/0.5                | Three-phase | Indirect |
| QBP1B.                | 402-MT5A-A0B10 | 3x63,5/110             | .../5                 | RS-232   Ethernet | 0.2S/0.5                | Three-phase | Indirect |
| QBP1R.                | 402-MT5A-C0B10 | 3x63,5/110             | .../5                 | RS-485   Ethernet | 0.2S/0.5                | Three-phase | Indirect |
| QBP1C                 | 402-MT5B-90B10 | 3x63,5/110             | .../5                 | RS-232   RS-485   | 0.2S/0.5                | Three-phase | Indirect |
| QBP1D                 | 402-MT5B-A0B10 | 3x63,5/110             | .../5                 | RS-232   Ethernet | 0.2S/0.5                | Three-phase | Indirect |
| <b>CIRWATT B 505</b>  |                |                        |                       |                   |                         |             |          |
| QBP1I                 | 405-MT5A-70B10 | 3x63,5/110             | .../5                 | RS-232   RS-232   | C (0,5S)/1              | Three-phase | Indirect |
| QBP1J                 | 405-MT5A-80B10 | 3x63,5/110             | .../5                 | RS-485   RS-485   | C (0,5S)/1              | Three-phase | Indirect |
| QBP1E                 | 405-MT5A-90B10 | 3x63,5/110             | .../5                 | RS-232   RS-485   | C (0,5S)/1              | Three-phase | Indirect |
| QBP1F                 | 405-MT5A-A0B10 | 3x63,5/110             | .../5                 | RS-232   Ethernet | C (0,5S)/1              | Three-phase | Indirect |
| QBP1K                 | 405-MT5A-C0B10 | 3x63,5/110             | .../5                 | RS-485   Ethernet | C (0,5S)/1              | Three-phase | Indirect |
| QBN00                 | 405-VT7A-90B10 | 3x57/100 ... 3x230/400 | .../ 1                | RS-232   RS-485   | C (0,5S)/1              | Three-phase | Indirect |
| <b>CIRWATT B 410T</b> |                |                        |                       |                   |                         |             |          |
| QB860                 | 410-QT5A-70B10 | 3x230/400              | .../5                 | RS-232   RS-232   | B (1) / 2               | Three-phase | Indirect |
| <b>CIRWATT B 505</b>  |                |                        |                       |                   |                         |             |          |
| QBN10                 | 405-VT7A-A0B10 | 3x57/100 ... 3x230/400 | .../ 1                | RS-232   Ethernet | C (0,5S)/1              | Three-phase | Indirect |
| QBN30                 | 405-VT7B-90B10 | 3x57/100 ... 3x230/400 | .../ 1                | RS-232   RS-485   | C (0,5S)/1              | Three-phase | Indirect |
| QBN40                 | 410-VT7B-A0B10 | 3x57/100 ... 3x230/400 | .../ 1                | RS-232   Ethernet | C (0,5S)/1              | Three-phase | Indirect |



## 402-MT5A-A0B10

Standard three-phase meter with indirect connection

Code: QBP1B.

| CODE                  | TYPE           | Measurement Range (V)  | Measurement Range (A) | Communications    | Class (Active/Reactive) | System      | Measure  |
|-----------------------|----------------|------------------------|-----------------------|-------------------|-------------------------|-------------|----------|
| <b>CIRWATT B 410T</b> |                |                        |                       |                   |                         |             |          |
| QB8A0                 | 410-QT5A-80B10 | 3x230/400              | .../5                 | RS-485   RS-485   | B (1) / 2               | Three-phase | Indirect |
| QB870                 | 410-QT5A-90B10 | 3x230/400              | .../5                 | RS-232   RS-485   | B (1) / 2               | Three-phase | Indirect |
| QB880                 | 410-QT5A-A0B10 | 3x230/400              | .../5                 | RS-232   Ethernet | B (1) / 2               | Three-phase | Indirect |
| QB890                 | 410-QT5A-C0B10 | 3x230/400              | .../5                 | RS-485   Ethernet | B (1) / 2               | Three-phase | Indirect |
| QBJ10                 | 410-VT5A-90B10 | 3x57/100 ... 3x230/400 | .../5                 | RS-232   RS-485   | B (1) / 2               | Three-phase | Indirect |
| QBG60                 | 410-NT5A-70B10 | 3x127/220              | .../5                 | RS-232   RS-232   | B (1) / 2               | Three-phase | Indirect |
| QBJ20                 | 410-VT5A-A0B10 | 3x57/100 ... 3x230/400 | .../5                 | RS-232   Ethernet | B (1) / 2               | Three-phase | Indirect |
| QBG70                 | 410-NT5A-90B10 | 3x127/220              | .../5                 | RS-232   RS-485   | B (1) / 2               | Three-phase | Indirect |
| QB8D0                 | 410-QT5B-90B10 | 3x230/400              | .../5                 | RS-232   RS-485   | B (1) / 2               | Three-phase | Indirect |
| QBG A0                | 410-NT5A-80B10 | 3x127/220              | .../5                 | RS-485   RS-485   | B (1) / 2               | Three-phase | Indirect |
| QBG80                 | 410-NT5A-A0B10 | 3x127/220              | .../5                 | RS-232   Ethernet | B (1) / 2               | Three-phase | Indirect |
| QB8E0                 | 410-QT5B-A0B10 | 3x230/400              | .../5                 | RS-232   Ethernet | B (1) / 2               | Three-phase | Indirect |
| QBG90                 | 410-NT5A-C0B10 | 3x127/220              | .../5                 | RS-485   Ethernet | B (1) / 2               | Three-phase | Indirect |
| QBJ60                 | 410-VT5B-90B10 | 3x57/100 ... 3x230/400 | .../5                 | RS-232   RS-485   | B (1) / 2               | Three-phase | Indirect |
| QBH20                 | 410-MT5A-70B10 | 3x63,5/110             | .../5                 | RS-232   RS-232   | B (1) / 2               | Three-phase | Indirect |
| QBJ70                 | 410-VT5B-A0B10 | 3x57/100 ... 3x230/400 | .../5                 | RS-232   Ethernet | B (1) / 2               | Three-phase | Indirect |
| QBH30                 | 410-MT5A-90B10 | 3x63,5/110             | .../5                 | RS-232   RS-485   | B (1) / 2               | Three-phase | Indirect |
| QBN0B                 | 410-QT7A-90B10 | 3x230/400              | .../1                 | RS-232   RS-485   | B (1) / 2               | Three-phase | Indirect |
| QBH61                 | 410-MT5A-80B10 | 3x63,5/110             | .../5                 | RS-485   RS-485   | B (1) / 2               | Three-phase | Indirect |
| QBH40                 | 410-MT5A-A0B10 | 3x63,5/110             | .../5                 | RS-232   Ethernet | B (1) / 2               | Three-phase | Indirect |
| QBN1B                 | 410-QT7A-A0B10 | 3x230/400              | .../1                 | RS-232   Ethernet | B (1) / 2               | Three-phase | Indirect |
| QBH50                 | 410-MT5A-C0B10 | 3x63,5/110             | .../5                 | RS-485   Ethernet | B (1) / 2               | Three-phase | Indirect |
| QBN0J                 | 410-VT7A-90B10 | 3x57/100 ... 3x230/400 | .../1                 | RS-232   RS-485   | B (1) / 2               | Three-phase | Indirect |
| QBN1J                 | 410-VT7A-A0B10 | 3x57/100 ... 3x230/400 | .../1                 | RS-232   Ethernet | B (1) / 2               | Three-phase | Indirect |
| QBN2B                 | 410-QT7B-90B10 | 3x230/400              | .../1                 | RS-232   RS-485   | B (1) / 2               | Three-phase | Indirect |
| QBN3B                 | 410-QT7B-A0B10 | 3x230/400              | .../1                 | RS-232   Ethernet | B (1) / 2               | Three-phase | Indirect |
| QBN2J                 | 410-VT7B-90B10 | 3x57/100 ... 3x230/400 | .../1                 | RS-232   RS-485   | B (1) / 2               | Three-phase | Indirect |
| QBN3J                 | 410-VT7B-A0B10 | 3x57/100 ... 3x230/400 | .../1                 | RS-232   Ethernet | B (1) / 2               | Three-phase | Indirect |