

# Technical features

|  |  |   |
|--|--|---|
| <b>Power circuit</b>                   | Power supply voltage   | 85...265 Vac / 95...300 Vdc<br>20...120 Vd.c. (SDC model)   |
| <b>Measurement circuit</b>             | Voltage  | 300 V AC p-n / 520 V AC p-p   |
|  | Frequency  | 50...60 Hz  |
|  | Current  | <b>ITF</b> ... /5 A or .../1 A, <b>MC</b> .../250 mA, .../333 mV  |
|  | Sampling   | 64 samples/cycle  |
| <b>Accuracy class</b>                  | V, A, Power  | 0.5%  |
|  | Active Energy  | $I < 0,1 I_n$ (Class 1)   |
|  | Reactive Energy  | $I > 0,1 I_n$ (Class 0,5)   |
| <b>Display of harmonics, up to the</b> | V, A   | 31 <sup>st</sup>  |
| <b>Communications</b>                  | Protocol   | Modbus/RTU / BACnet (RS-485)  |
|  | Speed  | 9600, 19200, 38400  |
|  | Bit, parity, stop  | 8, n, 1   |
| <b>Outputs</b>                         | 2 digital outputs  | OS Interface<br>Configurable, up to 1000 impulses<br>2 NPN Transistors (Only in version 3 TS)<br>(24 Vdc max, 50 mA,<br>5 imp/s, Max $T_{on}/T_{off}$ configurable) |
|  | 2 relay outputs  | Max. / Min / NO/NC / Hysteresis / Interlocking 250 Vdc, 6 A   |
|  | 2 digital inputs   | Tariff selection or external alarms<br>NPN, optocoupled   |
|  | 2 digital inputs   |   |
| <b>Build features</b>                  | Enclosure  | VO self-extinguishing plastic   |
|  | Protection Degree  | Front panel: IP 51 (IP 64 with accessory)<br>Rear: IP 31  |
|  | Dimensions   | 96.7 x 96.7 x 63.4 mm   |
| <b>Environmental conditions</b>        | Operating temperature  | -5...+45 °C   |
|  | Relative humidity  | 5 ... 95%   |
|  | Maximum altitude   | 2000 m  |
| <b>Safety</b>                          | Class III according to <b>EN 61010</b>   |   |
|  | Double-insulated electric shock protection, Class II   |   |
| <b>Standards</b>                       | <b>BS EN 61000-6-4, BS EN-61000-6-2, IEC 61000-6-2, IEC 61000, IEC 61000-4-3, IEC 610004-11, IEC 61000-4-4, IEC 610004-5, Measurement according to MID, UL certification</b> |   |

## References

| Transistor output   | Current measurement channels | Current input   | Type                      | Code                 |
|---------------------|------------------------------|-----------------|---------------------------|----------------------|
| 2                   | 3                            | .../5 o .../1 A | CVM-C10-ITF-485-ICT2      | <b>M55911</b>        |
| 2                   | 3                            | .../250 mA      | CVM-C10-MC-485-ICT2       | <b>M55921</b>        |
| -                   | 4                            | .../5 o .../1 A | CVM-C10-ITF-IN-485-IC2    | <b>M55942</b>        |
| 2                   | 2                            | .../333 mV      | CVM-C10-mV-485-ICT2       | <b>M559210000V</b>   |
| 2                   | 3                            | .../5 o .../1 A | CVM-C10-SDC-ITF-485-ICT2* | <b>M5591100F0000</b> |
| IP 64 sealing joint |                              |                 | IP64-C10-96               | <b>M5Z25T</b>        |

\* Power Supply 20...120 Vdc

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# CVM-C10

Compact & versatile  
Power Analyzer

*The new generation of CVM*



# CVM-C10

## Compact & versatile Power Analyzer (96 x 96 mm)

- ✓ Measure in Single-phase, bi-phase (2-3 wires) and three-phase (3-4 wires) networks
- ✓ 4-Quadrant measurement for consumption and generation in the same measurement point
- ✓ High IP protection (Frontal **IP 64** with accessory)
- ✓ Measurements taken with the efficient transformers of **CIRCUTOR'S MC** range or /5 A or /1 A transformers
- ✓ 2 built-in digital outputs (S0 Interface or alarms)
- ✓ 2 built-in digital outputs by relay
- ✓ 2 built-in digital inputs (tariff selection or external alarms)
- ✓ RS-485 Modbus/RTU Communications



