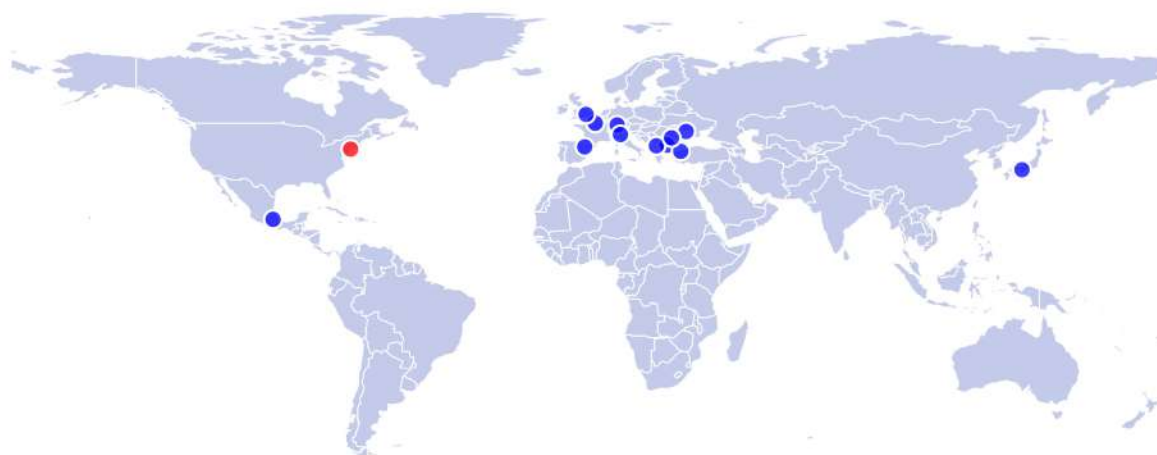




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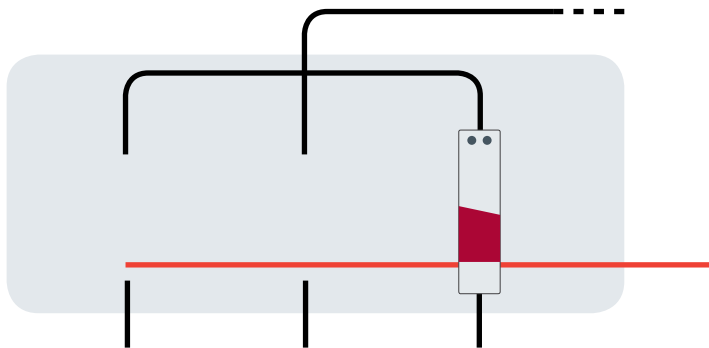
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Main Features

CVM-1D is a power analyzer for single-phase circuits up to 32 A. It has an LCD display with a rotating screen system, showing a total of 24 instantaneous, maximum and minimum electrical variables. It has been designed in an enclosure with only 1 DIN module (18 mm). The small size of the analyzer allows it to be installed in any electrical panel. The unit has the Modbus/RTU (RS-485) protocol and is compatible with the **PowerStudio** management software.



Technical features

CVM-1D

Model	Code
CVM-1D-C	M55510
CVM-1D-RS-485-C	M55511

Power supply circuit

Single-phase power supply	230 V _{AC} ±20%
Consumption	1.5 VA
Frequency	50 / 60 Hz

Metering circuit:

Phase – Neutral nominal voltage	184 V _{AC} to 276 V _{AC}
Frequency	50 / 60 Hz
Nominal current	32 A
Minimum current	20 mA
Maximum current	36 A

Output transistor characteristics

Type	Optoinsulated transistor (commutator open) NPN
Maximum operating voltage	35 V DC
Maximum operating current	50 mA
Maximum frequency	5 impulses / s
Impulse duration	100 ms (configurable)
Insulation	3.7 kV _{RMS} / 1 min

Communications

Port / Protocol	RS-485 / Modbus/RTU
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Environmental conditions

Operating temperature	-10 °C to + 50 °C
Protection degree	IP 31
Humidity (non-condensing)	5% to 95%
Maximum altitude	2000 m

Safety

Type of insulation	EN 61010 double-insulated electric shock protection class II
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Standards

IEC 664, VDE 0110, UL94-V0, EC 801, IEC 348, IEC 571-1, Class B
EN 50470-3 in Active Energy, Class 2 EN 62053-23 in Reactive Energy,
EN 50470-1, EN 61010, EN 61000-4-3, EN 61000-4-4, EN 61000-6-4, EN 55022

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