

**CVM MINI**  
DIN rail mounted three-  
phase power analyzer



**CVM NRG96**  
Panel mounted  
three-phase  
power analyzer

**Power studio**  
circutor.com SCADA



**4 Quadrants**

Determine your installation's sources  
of energy consumption to achieve more  
efficient energy management approach



## Technical features

	Code
CVM MINI	M52000
CVM MINI-ITF	M52010
CVM MINI-ITF-RS485-C2	M52021
CVM MINI-ITF-HAR-RS485-C2	M52031
CVM MINI-ITF-ETHERNET-C2	M520J1
CVM MINI-ITF-BACnet-C2	M520F1
CVM MINI-ITF-LonWorks-C2	M52091
CVM MINI-MC-ITF	M52070
CVM MINI-MC-ITF-RS485-C2	M52081
CVM MINI-MC-ITF-HAR-RS485-C2	M520M1
CVM MINI-MC-ITF-ETHERNET-C2	M520L1
CVM NRG96	M51800
CVM NRG96-ITF	M51900
CVM NRG96-ITF-RS485-C	M51911
CVM NRG96-ITF-HAR-RS485-C	M51B11
CVM NRG96-ITF-BACnet-C	M51981
CVM NRG96-ITF-LonWorks-C	M51951
CVM NRG96-MC-ITF	M51J00
CVM NRG96-MC-ITF-RS485-C	M51J11

### Current measurement

ITF indirect measurement version, with /5 or /1 A transformers

MC-ITF version with efficient transformers of the MC1 and MC3 series

### Digital transistor outputs

CVM MINI 2

CVM NRG96 1

**Universal power supply** 85 ... 265 V<sub>a.c.</sub> / 120 ... 374 V<sub>d.c.</sub>

Frequency 47 ... 63 Hz

**Optional power supply** 24 ... 120 V<sub>d.c.</sub>

### Available communications

Modbus RTU 3-wire RS-485 +A / -B / GND

Modbus TCP **CVM MINI-Ethernet**. Only with 230 V<sub>a.c.</sub> power supply

BACnet® MS/TP, in accordance with ANSI/ASHARE 135 (ISO 16484-5)

LonWorks® LonTalk, according to ANSI/EIA 709.1 (ISO/IEC 14908)

**Safety** Cat. III - 300 V<sub>p-n</sub> / 520 V<sub>a.c.p-p</sub>

Type of insulation **EN 61010** Double-insulated electric shock protection **Class II**

### Standards

IEC60664, VDE0110, UL94, EN61010-1, EN55011, EN61000-4-3, EN61000-4-11, EN61000-6-4, EN61000-4-2, EN61000-6-2, EN61000-6-2, EN61000-6-1, EN61000-6-3 and EN61000-4-5

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**M** Measure and Control

CVM CVM  
**MINI & NRG96**

Three-phase power analyzers

Measuring with class  
now offering new protocols



**LONWORKS**  
**BACnet**  
International



**CIRCUTOR**

Technology for energy efficiency

# Three-phase power analyzers that have been specially designed with energy management protocols for buildings

- ✓ Measures both the consumption and generation of energy
- ✓ Measures True Root Mean Squared values (TRMS)
- ✓ Over 230 electrical parameters (Instantaneous, maximum, minimum, energy)
- ✓ 230 V<sub>a.c.</sub> Power supply, Universal power supply and DC version.
- ✓ Digital NPN transistor output/s
- ✓ Communications in different protocols available

## New protocols

### LONWORKS

LonTalk, in accordance with ANSI/EIA 709.1 (ISO/IEC 14908)

### BACnet<sup>®</sup> International

MS/TP, in accordance with ANSI/ASHARE 135 (ISO 16484-5)

*In addition to the RS-485/ModbusRTU versions, ModbusTCP(Ethernet) is also offered in versions with BACnet<sup>®</sup> and LonWorks<sup>®</sup> protocols that are easily integrated into the control system in your building or similar installations.*

## Compact & versatile telemanagement

The CVM MINI and CMV NRG96 range with Modbus communications is directly integrated with the data logger and EDS or EDS-3G web servers; a compact DIN rail solution that can be used to easily access information from a remote location.

