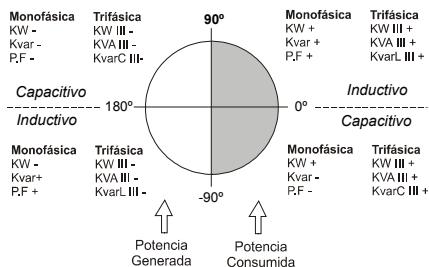




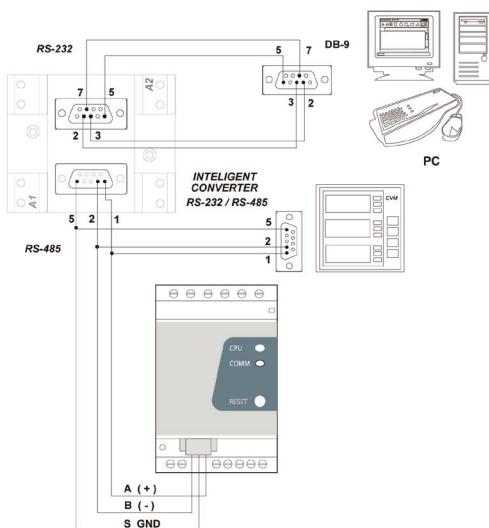
## ■ FOUR CVM-NET QUADRANTS



## 2.7.- CVM-NET COMMUNICATIONS

One or several CVM-NET analyzers can be connected to a computer or PLC. This system makes it possible to centralise the data in a single record point, in addition to the normal operation of each of them (PowerStudio® System). The CVM-NET has an RS-485 serial communication output. If more than one analyzer is connected to a serial communication bus (RS-485), each analyzer must be assigned a peripheral number or address (from 01 to 255), with a maximum of 32 units per communication bus, so that the central computer sends the queries from the various records measured or calculated to these addresses.

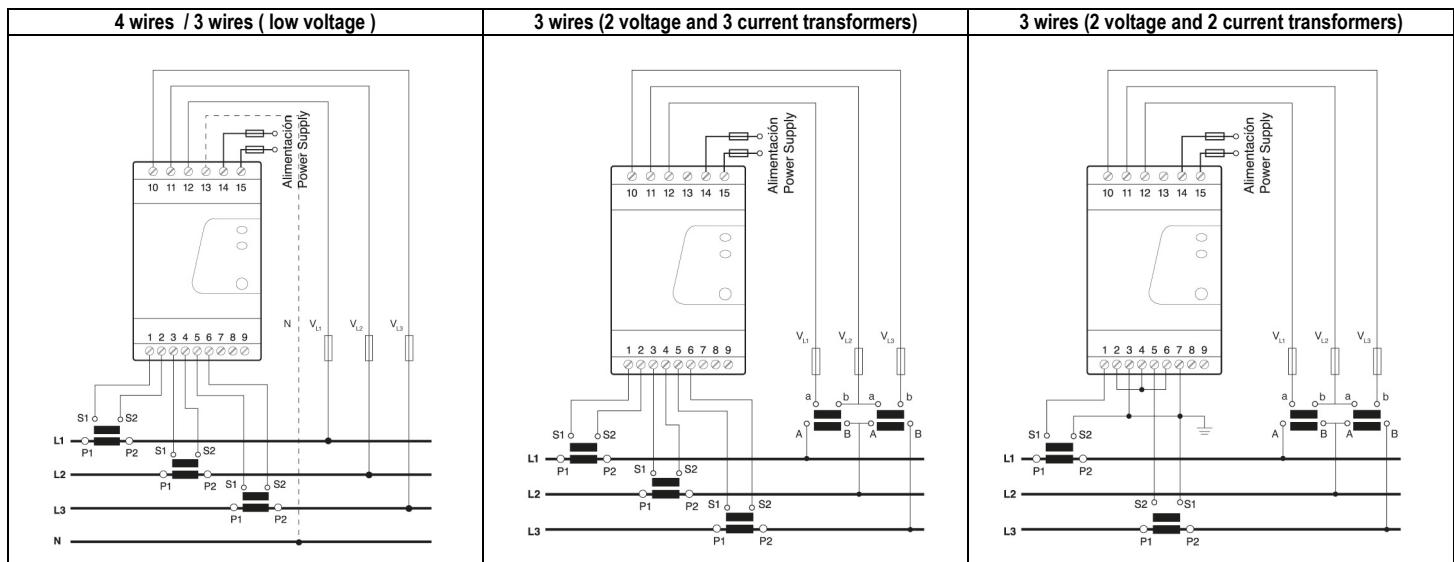
The CVM-NET power analyzer communicates using the MODBUS RTU® protocol (Pulling Question / Answer).



## 3.- TECHNICAL SPECIFICATIONS

<b>Power circuit:</b>	<b>AC version</b> - Single-phase: - Voltage tolerance: - Frequency: - Maximum consumption: - Working temperature: - Humidity (non-condensing):	<b>DC version</b> 230 V AC -15% / +10% 50 - 60 Hz 3.0 V·A -10 .....+ 50 °C 5 ..... 95%	<b>Plus version: C. &amp; DC</b> 20...120V DC 85..265V AC / 95..300V DC 50 - 60 Hz (AC mode.) 1,2...2 W 3.0 V·A/ 3W -10 .....+ 50 °C 5 ..... 95%
<b>Mechanical characteristics:</b>	V0 self-extinguishing plastic IP 51 IP 31 85 x 52 x 70 mm (3 modules) 0.210 kg		
<b>Precisions Class:</b>	0.5% ± 1 digit 0.5% ± 1 digit 1% ± 1 digit External transformers / direct voltage 0.5 to 1 0.2 ..... 120% / 2 ..... 120% ± 2 °C / -10 ..... +50 °C + 14.0 °C + 3.5 °C 2000 meters		
Measurement sensors: Current / Voltage Power factor: Full-scale measurement margin: ITF / Shunt Temperature sensor: Precision / Working window - Temperature measurement: with forced ventilation - Temperature measurement: without forced ventilation Maximum altitude operating:			
<b>Metering circuit:</b>	- Nominal voltage: phase-neutral / between phases - Frequency: - Nominal current: - Permanent overload: - Voltage consumption of the circuit: - Current consumption of the circuit: ITF / Shunt	300 V AC / 520 V AC 45 ~ 65 Hz $I_n / 5 A$ 1.2 $I_n$ 0.7 V·A 0.9 V·A / 0.75 V·A	
<b>Features of the output transistors</b>	- Type: Opto-isolated transistor (commutator open). - Maximum switching voltage: - Maximum switching current: - Maximum frequency: - Pulse duration:	NPN 24 V DC 50 mA 5 pulse / s 100 ms	
<b>Safety:</b>	Category III - 300 V AC / 520 V AC EN-61010 Class II double-insulated electric shock protection. The system should be connected to a power supply circuit protected by fuses gl or M type, with current ratings between 0.5 and 1 A. It should be provided with a MCCB or equivalent device to switch off the system from the power supply circuit. The power supply and voltage measuring circuit is connected with cable minimum cross section of 1 mm²		
<b>Standards:</b>	IEC 664, VDE 0110, UL 94, IEC 801, IEC 348, IEC 571-1, EN 61000-6-3, EN 61000-6-1, EN 61010-1, EN 61000-4-11, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 55011, CE		

## 4.- CONNECTIONS



## 5.- TECHNICAL SERVICE

In the event of any equipment failure or any operational queries please contact the technical service of CIRCUTOR S.A.

CIRCUTOR S.A. - After sales service

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08232-Viladecavalls (Barcelona)

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