

# ASM3-PV NETWORK ANALYSER



The **ASM3-PV** is designed for the calculation and measurement of the electrical variables of a network such as voltage, current, frequency, power, power factor, energy, harmonics, demand, etc.

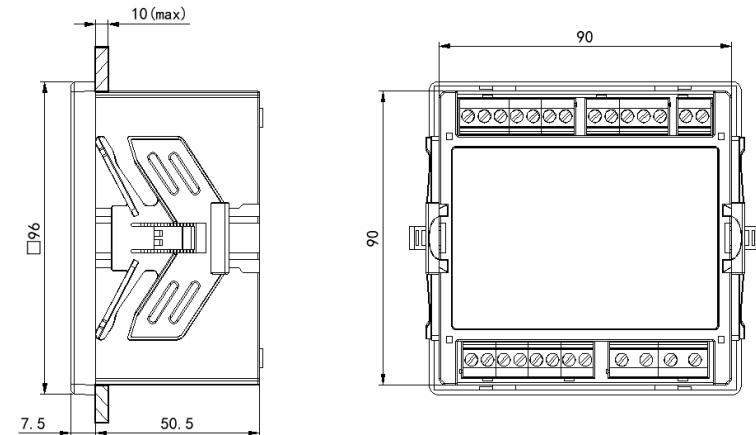
The analyser can measure up to 800 V phase-to-phase directly, which makes it ideal for the connection of inverters in photovoltaic plants, control and energy management systems and automation of substations and distribution networks.

It has communications through the RS485 port with ModBus protocol, making it possible to acquire data from the

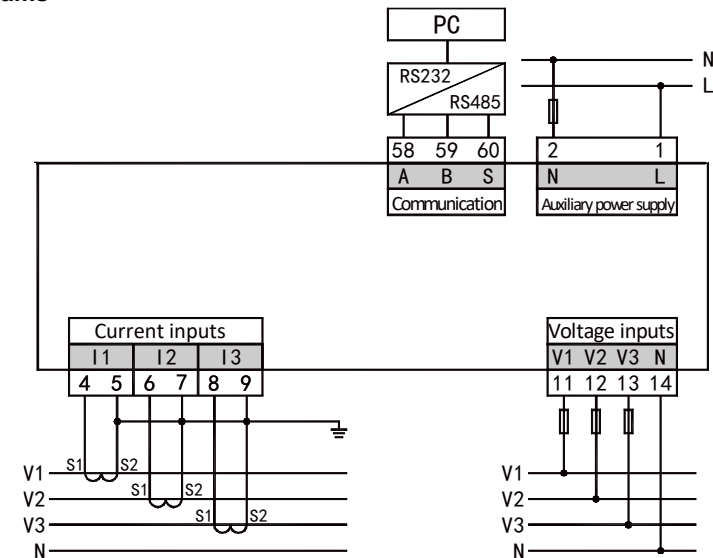
equipment on a computer using the equipment's user application.

Function	Signal	Accuracy	Range	Display range
VOLTAGE	U	0.5	10—690 V F-N 10-1000 V F-F	0--999.9 kV
CURRENT	I	0.5	0--5 A	0--99.99 kA
ACTIVE POWER	P	0.5	0—10.35 kW	0--9999 MW
REACTIVE POWER	Q	0.5	0—10.35 kvar	0--9999 Mvar
APPARENT POWER	S	0.5	0—10.35 kVA	0--9999 MVA
POWER FACTOR	PF	0.5	0--1.00	0--1.000
FREQUENCY	F	±0.01Hz	45--65 Hz	45.00Hz-65.00 Hz
ACTIVE ENERGY	EP	0.5s	--	0--99999999 MWh
REACTIVE ENERGY	EQ	2	--	0--99999999 Mvarh
THD_V	THDu	Class A	51	0--99.99 %
THD_I	THDi	Class A	51	0--99.9 %
DEMAND	--	0.5	--	--

## Dimensions



## Wiring diagrams



Download complete equipment manual:

<https://saci.es/es/analizadores/>

Download user software:

<https://saci.es/es/software/>

**ASM3-PV  
NETWORK ANALYSER**



Input	
Voltage range	3 x 462 / 800 V A.C.
Frequency range	45 to 65 Hz
Máx. input voltage	1.2 × Un, continues 2 x Un para 10 s
Load	1.6 MΩ/per phase
Current range	X/5 o X/1 programmable
Máx. input current	2 × In, continues 10 x In for 5 s (max. 50 A)
Load	Max. 0.2 VA por fase
Power supply circuit	
Supply	80-270 V C.A./C.C.
Self consumption	< 5 VA
Environmental conditions	
Temperature range	-25 a 70 °C
Storage temperature	-30 a 80 °C
Humidity	<95% SC (DIN 400040)
High	< 4000 m
Mechanical characteristics	
Material	ABS, UL94 V0
Protection dregree	IP64 front IP20 case
Assembly	Panel 96 x 96
Máx. wire section	Supply voltage, voltage and current 6mm <sup>2</sup>
Galvanic isolation	Between inputs, outputs and supply voltage: >1000MΩ
Height	320g

Serial interface	
Type	RS-485 three wires
Baud rate	1200 / 2400 / 4800 / 9600 / 19200 bps configurable
Data bits	8
Parity	No parity / Parity configurable
Stop bit	1 / 2 configurable
Isolation	2000 VAC (1 min)
Electrical characteristics and safety	
Standard IEC	IEC 62053-22:2003 IEC 62053-23:2003 IEC 61010-1:2001 IEC 61000-2-11 IEC 60068-2-30
EMC	IEC 61000: 4-2; 4-3; 4-4;4-5;4-6; 4-8;4-11

 **Safety Precautions**

The manufacturer shall not be held responsible for failure to comply with the instructions in this manual.

The equipment must be installed and serviced only by qualified personnel.

Prior to any work on or in the equipment, isolate the voltage inputs and auxiliary power supplies, short the secondary of all CT, but never short the secondary of PT.

Always use a properly rated voltage sensing device to conform that all power is off.

**Risk of damaging device**

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