

NETWORK ANALYSER ANG96

NEW



The ANG96 model is a digital device, able to measure all the variables associated with an electrical line. It accepts the three current and three voltages signals in a 4 wire configuration. It is also possible to use it in 3 wire configuration, using two or three current transformers.

Main characteristics of the unit are:

- LCD 128x64 DISPLAY, WITH BACKLIGHT
- TRUE RMS VOLTAGE AND CURRENT MEASUREMENT
- NEUTRAL CURRENT
- OVER 55 PARAMETERS TOTAL
- HARMONIC DISTORSION (THD on V and I)
- MAXIMUM DEMAND
- MAXIMUM AND MINIMUM VALUES
- 4 CUADRANT MEASUREMENT
- TWO RELAY OUTPUTS, PROGRAMMABLE AS ENERGY METERS, ALARMS, OR DEDICATED CONTACTS.
- SERIAL PORT RS485 .
- MODBUS RTU PROTOCOL
- DIN SIZE 96x96.
- DETACHABLE SCREW CONNECTORS
- PROGRAMMABLE THROUGH FRONT KEYS OR SERIAL LINE

OPERATING INSTRUCTIONS.

1.- KEYBOARD.

Five keys are provided:

Key1 Key2 Key3 Key4 Key5
Down/RESET Up/PROG Shift/MAX ENTER/MD P

Each key has different function depending on the mode selected.

2.- DISPLAY.

A graphical LCD 128x64 dots is used. The information is shown through pages, grouping similar measurements, normally in four lines each.

3.- WORKING MODES.

3.1.- INDICATION MODE.

This is the normal functioning of the device. When is powered up after resetting, the display shows the first page. Pressing Up or Down keys changes to the following or last pages.

3.2.- MAXIMUM/MINIMUM MODE.

This mode is selected pressing the Key3- MAX.

The device can store, in a non volatile memory, the max and min values for :

- 3 Currents I1, I2 and I3
- 3 Voltage V1, V2 and V3
- 3 single Active, Reactive and Apparent Powers
- 3 phase Active, Reactive and Apparent Powers.
- PF and Frequency.

3.3.- MAXIMUM DEMAND MODE.

The maximum demand is calculated as the mean value reached during the time specified. To enter in this mode, press Key4-MD. Three values are shown, one the present reached during the current period, other the value reached during the last period, and the third the maximum from the last resetting of the values. The information is shown in pages, the first line showing the time interval selected.

ACCURACY

Parameter	Operating range	Accuracy
Voltage	20-120%	0,3% reading + 0.3% F.S.
Current	20-120%	0,3% reading + 0.3% F.S.
Act. Power	20-120%	0,3% reading + 0.3% F.S.
React. Power	20-120%	0,3% reading + 0.3% F.S.
App. Power	20-120%	0,3% reading + 0.3% F.S.
P.F.	20-120%	1% F.S.
Freq.	20-120%	0,2% F.S.
Act. Energy	20-120%	0,5% F.S.
React. Energy	20-120%	1% reading

ENVIRONMENTAL

Operating Temp	-10/60 °C
Storage Temp	-20/70 °C
RH	0-95% non condensing
Ventilation	Not required.
Protection degree	Front IP54. Back IP20

TECHNICAL FEATURES

INPUT

Nominal voltage	400 V AC., max. 300 V phase-ground.
Burden	1 mA per phase
Measuring range	20-120 % Vn
Nominal current	5 A
Burden	0,3 VA per phase
Measuring range	0-120 % In
Frequency	50-60 Hz
Auxiliary supply	85-264 V AC / 80 – 300 VDC
Consumption	4 VA
Overload:	2In permanent, 20In 1s. 1,2Vn permanent, 2Vn 10 s.

OUTPUT

Relays:	250VAC, 3A
Pulse mode:	60 ms.
Serial line:	
Standard	RS485
Protocol	MODBUS RTU
Baud rate	1200-19200 bps
Connection	Two wire

The serial line is isolated from the main circuit, allowing leaving the communication bus floating, or connected to ground at the best point in the installation.

DIMENSIONS

Device: 96x96x61 mm
Allow additional clearance in the backside of 30 mm for connections.

S.A DE CONSTRUCCIONES INDUSTRIALES
La Granja St. 84 - 28108 Alcobendas Madrid Spain
Phone +34 - 91- 519.02.45 Fax: +34 -91-416.96.46
<http://www.sacinet.com>
e-mail: saci@saci.es

