

NETWORK ANALYZER



NETWORK ANALYZER - AHM1-RC (ROGOWSKI COIL)

The AHM1 is designed to be used for the measurement and calculation of electrical variables such as voltage, current, frequency, power, power factor, energy, harmonic components, etc. Memory of 8 MB incorporated.
The AHM1-RC (Rogowski coil version) shows an easy-wire connection very useful for existing switchboards.

GENERAL FEATURES

- **SENSORS DIAMETER:** Ø70, Ø120 and Ø200 mm.
- **SENSOR LENGTH 2M.**
- **DIN 96 x 96 mm.**
- **MEMORY 8 MB.**
- **THD on V and I.**
- **HARMONIC RMS (1-31).**
- **DIGITAL INPUT/OUTPUT.**
- **MAXIMUM DEMAND, A, kW, kVA, kvar.**
- **PROGRAMMABLE RATED V AND I.**
- **4 QUADRANT MEASUREMENT.**
- **RS-485 PORT.**
- **MAXIMUM AND MINIMUM VALUES.**
- **ETHERNET TCP-IP (Optional).**



**EASY-WIRE
RJ12**

ELECTRICAL PARAMETER	UNIT	L1	L2	L3	TOTAL	MAX/MIN	DEMAND
Voltage (Phase - Neutral)(Phase - Phase)	V, kV	•	•	•		•	
Current	A, kA	•	•	•		•	•
Neutral current	A, kA				•		
Active power (P)	kW, MW, GW	•	•	•	•	•	•
Reactive power (Q)	kvar, Mvar, Gvar	•	•	•	•	•	•
Apparent power (S)	kVA	•	•	•	•	•	•
Power factor (Cos φ)	PF	•	•	•	•	•	
Frequency	Hz				•	•	
Import & export active energy (EP+)(EP-)	kWh, MWh, GWh				•		
Import & Export reactive energy (Eq+)(Eq-)	kvarh, Mvarh, Gvarh				•		
Hour meter	h: min				•		
THD Current and Voltage	A, V	•	•	•			
Harmonic RMS-U and I (1-31)	%	•	•	•			
Unbalanced -U and I	%				•		

SENSOR - TECHNICAL FEATURES

SENSOR DIAMETER Ø (mm)	
RC-70	Ø 70
RC-120	Ø 120
RC-200	Ø 200

TECHNICAL FEATURES	
Frequency range	50-60 Hz
Accuracy	± 1% of range
Linearity (10% to 100%)	± 0,2%
RJ12 (EASY-WIRE)	FCC-68 (6/6)
Typical voltage output	100µV/A @ 50 Hz

2 DIGITAL INPUTS

- See input state
- Select tariff (Up to 4 tariff available)
- Pulse counter
- Maximum demand synchronization

2 CONTACT OUTPUTS

- Alarms
- Energy pulses
- Remote mode

OVERLOAD

- 2 Vn x 10 s
- 1,2 Vn permanent
- 2 In permanent

Analizers

TECHNICAL SPECIFICATIONS

INPUT	
Rated voltage (Un)	3 x 400 / 690 V AC
Overload	1,2 Un
Impedance	> 1MΩ
Current Input	Rogowski coil
Maximum current value -I max	3.000 A
Rated current value	1-120% I max

AUXILIARY VOLTAGE	
Aux. V. AC/DC	80 - 270 V
Burden	< 5 VA

OUTPUT	
Relay output	250V/5A AC; 30V/5A DC
Isolation	2500 V AC
Energy pulse width	80 ± 20% ms
RS-485 port	Modbus-RTU
Baud rate	Up to 38400 bps programmable
Connection	2 wires
Ethernet port *	TCP Modbus

* Optional

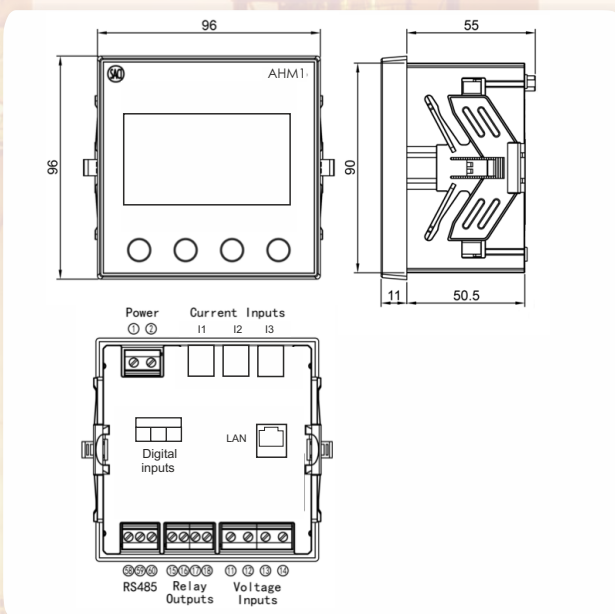
GENERAL FEATURES	
Case material	ABS, UL94 V0
Dimensions	DIN 96 x 96 mm
Terminals	Pluggable
Max. wire section	2,5 mm ² General
	4 mm ² Current(I)
Weight	0,4 Kg
Protection	IP 65 - front panel
	IP 20 - meter body
Operating temperature	-10 - 60 °C
Storage temperature	-25 - 70 °C
Relative humidity	5 - 95 %

ACCURACY

PARAMETER	OPERATING RANGE	ACCURACY
Voltage	2,5-120 %	0,2 %
Current	0,1-120 %	0,2 %
Active power	1-120 %	0,2 %**
Reactive power	1-120 %	0,2 %**
Apparent power	1-120 %	0,2 %**
Power factor	± 0,5 %	0,5 %
Frequency	45-65 Hz	± 0,01 Hz
Active energy	1-120 %	Class 0,5 S
Reactive energy	1-120 %	Class 2

** Class 0,2 (25°C) and Class 0,5 (-10 - 60 °C)

DIMENSIONS



CONNECTIONS

