

NETWORK ANALYZER



NETWORK ANALYZER - SAM3000

SAM3000 is a new generation of electrical parameter monitoring product that can measure real-time electrical parameter, energy metering, power quality analysis, status monitoring and off-limit alarm functions. It can measure up to 32 three-phase circuits or 96 single-phase circuits.

NEW

GENERAL FEATURES

- **MULTI-LOOP MEASUREMENT.**
- **UP TO 32 THREE-PHASE OR 96 SINGLE-PHASE**
- **EASY INSTALLATION.**
- **ONE DISPLAY MODULE: FRIENDLY INTERFACE**
- **THD V and I**
- **HARMONICS UP TO 63rd**
- **4 QUADRANT MEASUREMENT**
- **VOLTAGE CREST FACTOR & CURRENT K FACTOR**



APPLICATIONS



REMOTE POWER MONITORING



DATA ACQUISITION



ENERGY MANAGEMENT

ELECTRICAL PARAMETERS	SAM3000-01		
	_1	_2	_3
Three phase voltage	•	•	•
Three phase current	•	•	•
Demand Max/Min/Average	•	•	•
Active power (P)	•	•	•
Reactive power (Q)	•	•	•
Apparent power (S)	•	•	•
Power factor (Cos φ)	•	•	•
Frequency	•	•	•
Fundamental V, I, P and PF	-	-	•
Bi-direction active and apparent energy	•	•	•
4 quadrant reactive energy	•	•	•
Tariff	-	•	•
Fundamental active and reactive energy	-	-	•

POWER QUALITY	SAM3000-01		
	_1	_2	_3
THD Voltage and Current	•	•	•
Harmonics RMS-U and I (1-63)	-	•	•
Unbalance-U and I	-	•	•
Crest factor	-	•	•
k factor	-	•	•
Swell/sag voltage	-	-	•
Fluctuation and flicker	-	-	•
Voltage and frequency deviation	-	•	•

DATA RECORD	SAM3000-01		
	_1	_2	_3
Demand record	-	•	•
Max/Min & average value record	-	•	•
Off-limit alarm record	-	•	•
SOE event record	-	•	•
Voltage swell/sag & interruption record	-	•	•

SAM3000



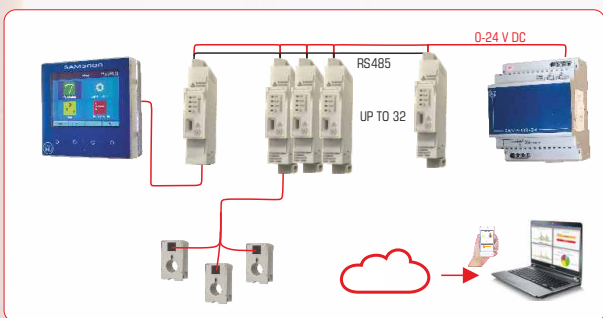
COMPONENTS

COMPONENTS	QUANTITY	DIMENSIONS
SAM3000-01 Measurement m.	1-32	1 Module: 18 mm
SAM3000-02 Communication m.	1	1 Module: 18 mm
SAM3000-03 Display m.	1	96x96x38 mm
SAM3000-04 Power m.	1	4 Modules: 72 mm

GENERAL FEATURES				
SAM3000-	-01	-02	-03	-04
IP	IP20	IP20	IP67	-IP20
Operating temperature	-20 - 70 °C			
Storage temperature	-30 - 80 °C			
Relative humidity	<95% , no condensation			

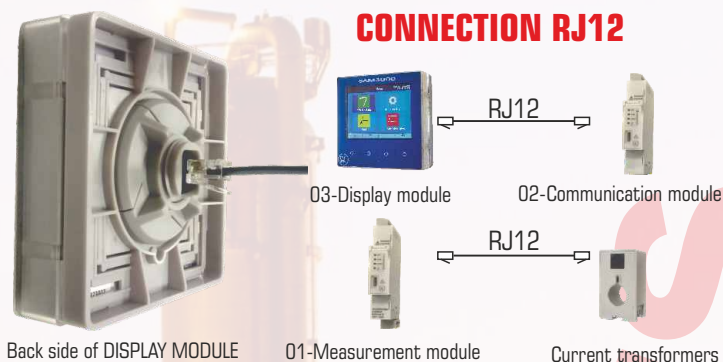
Analizers

EXAMPLE OF CONNECTION



EASY WIRE RJ12

EASY-WIRE CONNECTION RJ12



TECHNICAL SPECIFICATIONS

INPUT - SAM3000-01	
Rated voltage (Un)	3 x 220 / 380 V AC
Overload	1,2 Un or 2Un/10s
Impedance	> 1,7 MΩ / Phase
Frequency	45-65 Hz
Burden	< 0,1 VA / Phase

WORKING POWER SUPPLY - SAM3000-01	
Rated range	24 V ± 20% DC
Burden	< 0,5 W

OUTPUT - SAM3000-01	
Relay output	280V/0.12A AC; 400V/0.12A DC
Relay Isolation voltage	5000 V AC
Pulse output width	80 ± 20% ms
RS-485 port	Modbus-RTU
Baud rate	Up to 19200 bps programmable
Communicate Isolation voltage	4000 V AC

POWER SUPPLY MODULE -SAM3000-04	
Aux. V. AC/DC	80 - 270 V
Burden	< 5 VA



CURRENT INPUTS AVAILABLE*	SAM3000-01		
	_1	_2	_3
2,5 mA	•	•	•
80 mA	•	•	•
330 mV Rogowski coil	•	•	•
330 mV Mini splits 5 A	•	•	•
330 mV Mini splits 100-600 A	•	•	•

* Current input should be chosen from this table.

ACCURACY

PARAMETER	ACCURACY
Voltage & Current	0,2 %
Power	0,5 %
Power factor	0,5 %
Active energy	Class 0,5S
Reactive energy	Class 2
Apparent energy	Class 0,5

PARAMETER	ACCURACY
V & I THD	Class A
V & I Harmonic	Class A
V & I Unbalance	Class B
V & I sequence comp..	Class 0,5
V & I phase	0,1°

WIRING DIAGRAM

