



NETWORK ANALYZERS - SUMMARY

MODULAR SERIES - 6 DIN modules

E2002

E2001

E2001SE







PANEL MOUNTING SERIES - 96 x 96

E92002

E92001

E92001SE







PANEL MOUNTING 72 x 144

E742002

General features:

The **E** ... series network analyzers designed and developed wholly by **ESAM** are built to comply with all the modern requirements of measure and control of electrical parameters in a single-phase and three-phase networks.

The adoption of the latest generation's microprocessors, of a new measuring circuit with autorange, the careful choice of every component (**UL** recognized printed circuits) and the calibration with **EAL.SIT** certificated devices, warrant the highest precision and reliability in every condition of use.

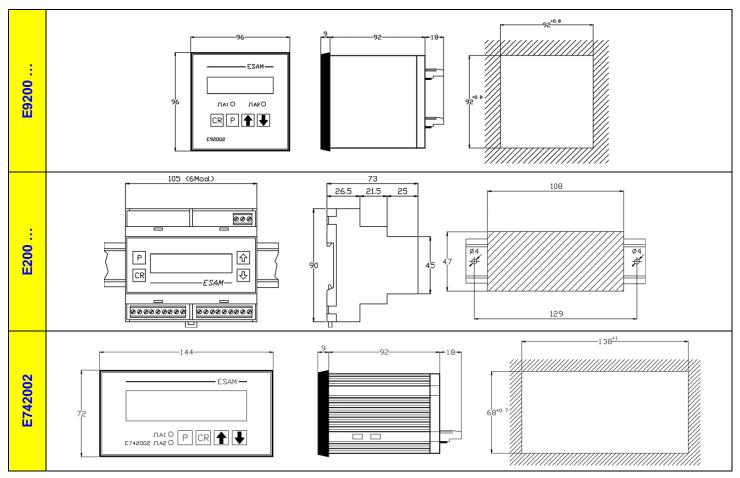
The use of the analyzer **E2002** allows to obtain several advantages:

- multirange (8 for voltage, 8 for current)
- simultaneous acquisition of: RMS voltages, RMS currents, frequency, cosφ, powers, energies, THD...
- simplification of wire assembly (a single meter for all the variables to be measured
- in field configuration of CT and VT ratios for direct values reading (automatic selection engineering units)
- a single device for all type of connection: single-phase, three-phase with 2 CT (ARON), three-phase with 3 CT
- automatic programmable page change
- averaging with selectable response time
- measure of active and reactive energy with 2 programmable pulse outputs for remote acquisition
- 2 user configurable alarms. Nearly all measured/calculated values can be selected as alarm source (see table)
- Insulated RS485 serial interface for connection to PC/PLC
- 3 serial communication protocols: ESAM, MODBUS RTU, N2BUS (Metasys Johnson Controls)
- scratch-resistant membrane touch switches with secret access code



rev. 3.8

MEASURED AND CALCULATED VARIABLES		E2002	E2001	E2001SE	E92002	E92001	E92001SE	E742002
Phase Voltages	V1N V2N V3N	✓	✓	✓	✓	✓	✓	✓
Linked Voltages	V12 V23 V31	✓	✓	✓	✓	✓	✓	✓
Linked average Voltage	Vtm	✓	✓	✓	✓	✓	✓	✓
Currents	11 12 13	✓	✓	✓	✓	✓	✓	✓
Average Current	Itm	✓	✓	✓	✓	✓	✓	✓
Active Powers	P1 P2 P3	✓	✓	✓	✓	✓	✓	✓
Total Active Power	Ptot	✓	\	✓	✓	✓	✓	✓
Reactive Powers	Q1 Q2 Q3	✓	\	✓	✓	✓	✓	✓
Total Reactive Power	Qtot	✓	\	✓	✓	✓	✓	✓
Apparent Powers	S1 S2 S3	✓	✓	✓	✓	✓	✓	✓
Total Apparent Power	Stot	✓	✓	✓	✓	✓	✓	✓
Phase Cosφ	PF1 PF2 PF3	✓	✓	✓	✓	✓	✓	✓
Total Cosφ	PF	✓	✓	✓	✓	✓	✓	✓
Frequency	Frequency	✓	✓	✓	✓	✓	✓	✓
Positive and negative Active Energy	Wh(+) Wh(-)	✓	✓		✓	✓		✓
Positive and negative React. Energy	VARh(+) VARh(-)	✓	✓		✓	✓		✓
Average positive powers (e.g. 15 ')	Pm(+) Pm(-) Qm(+) Qm(-)	✓			✓			✓
Peak positive active powers (e.g. 15')	Pm(+) Pm(-) Qm(+) Qm(-)	✓			✓			✓
Memorization of 4 peaks	Peak 1234	✓			✓			✓
Memorization of 2 peaks	Peak 12		\	✓		✓	✓	
Hour-meter	Hour Meter	✓	\	✓	✓	✓	✓	✓
Temperature (internal probe)	Temperature	✓			✓			✓
Phase sequence	V. Phase Sequence	✓	\	✓	✓	✓	✓	✓
Total harmonic distortion (%)	Thd V1-V2-V3 Thd I1-I2-I3	✓			✓			✓
RS485 serial (3 protocols)	MODBUS RTU, ESAM, N2BUS	✓			✓			✓
Alarm outputs / Pulses outputs		✓			✓			✓



For the peculiar features of every model see the respective specifications.