

ETIMETER

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NETWORK ANALYZERS



Three Phase Network Analyzer (ENA3, ENA3D)

Application

Three phase network analyzer is intended for measuring electrical parameters of various loads in industry such as voltage, current, power factor ($\cos \phi$), power (W, VAR, VA), single and total harmonic distortion V-I, work hours, ambient temperature. Available in two versions, ENA3 for door mounting and ENA3D for DIN-rail mounting. Display integrated in device shows parameters for each phase separately. 3 independent programmable contact free output relays can be set up for different alarms. Programing is possible directly on device or with connecting to PC by using communication adapter SCUSB485 and free monitoring software not included in package, available on web.



ENA3



ENA3D



RoHS



Network Analyzer

Type	Description	Code	Weight [g]	Packaging [pcs]
ENA3	3-phase network analyzer for panel mounting	004656578	760	1/30
ENA3D	3-phase network analyzer for DIN-rail mounting	004656579	630	1/40

Communication adapter SCUSB485 is not included and must be ordered separately under reference code: 004656577

Advantages

- 3 independent programmable alarm relay outputs (NO)
- Programmable alarm relay (Under/Overvoltage - Overcurrent - Frequency - Low power factor $\cos \phi$ - Total harmonic distortion)
- 144x144 panel mounting or 9 modules DIN
- Self-extinguished material UL94 V0

Measurements

- Power factor $\cos \phi$ inductive & capacitive (four quadrants)
- Three phase voltage & current
- Power: W - WH - VA - VAR - VARH
- Single and total harmonic distortion (THDs) V/I
- Working hours
- Ambient temperature

Communication

- serial interface: TTL, RJ11 connector
- protocol: Proprietary / MODBUS RTU

Adapter TTL<>USB<>RS485

Type	Description	Code	Weight [g]	Packaging [pcs]
SCUSB485	Adapter TTL<>USB<>RS485	004656577	390	1/30

Interface converter TTL > USB <> RS485 can be used with ENA3, ENA3D or PFC 8 DB, PFC 12 DB.

Software (monitoring and programming via PC) and drivers available (free) for Windows on ETI webpage

Features

- Self-extinguished material UL94 v0)
- USB and RS-485 serial interface with cables
- Surge protection on RS-485 line
- Connect remote serial device to a PC
- Power and data flow indicator for troubleshooting
- The RS-485 standard supports half-duplex (2 wire)
- Real time transfer ASCII protocol
- Compact size - 2 module - 35mm
- DIN rail mounting EN 50 022

Universal Analyser (ENALCD33)

Description

The power line analyser for accurate monitoring of main electrical parameters in three-phase or single-phase networks. The instrument measures continuous voltage and current according to the norm EN 61000-4-30. Thanks to precise measurement and a high sampling rate, it is also ideal for particular measuring points in electrical energy monitoring systems. Integrated communication interface RS485 with Modbus RTU protocol allows using it as a measuring point in SCADA systems.

Universal Analyser

Type	Description	Code	Weight [g]	Packaging [pcs]
ENA33LCD	Panel mounting 96x96	004656910	460	1

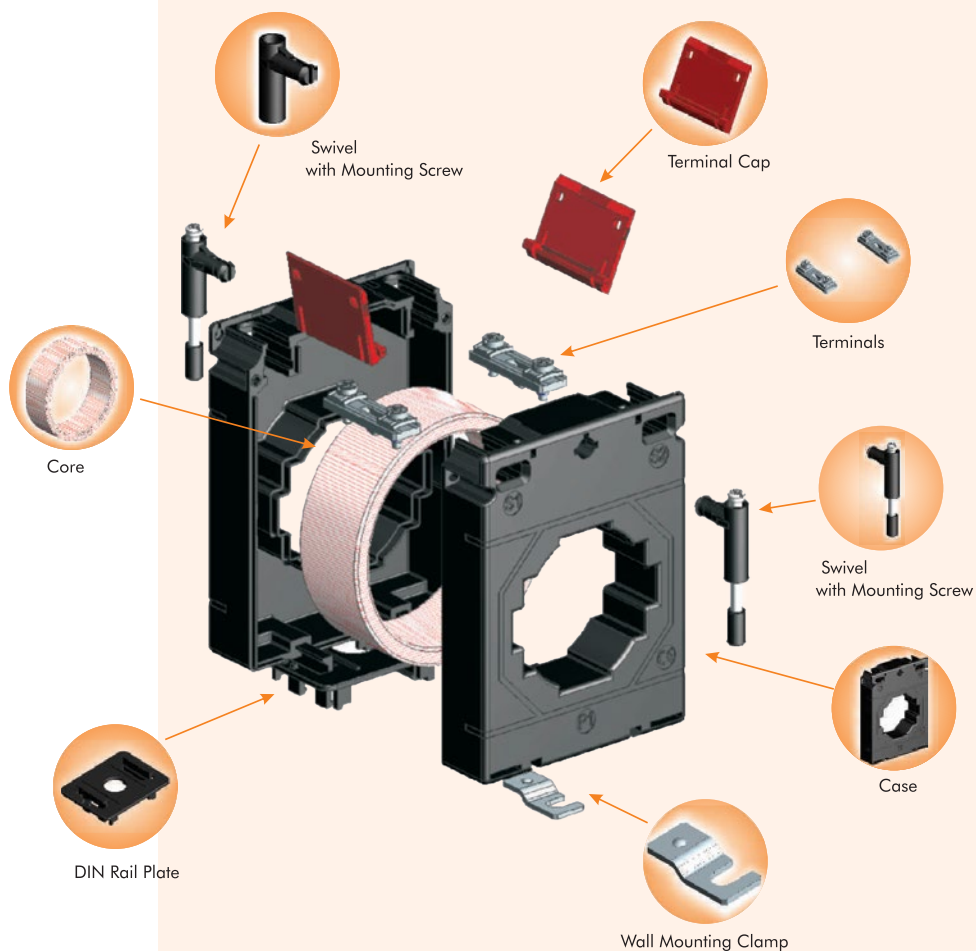
Advantages

- TN, TT, IT (virtual N) 3 phase networks
- 3 voltage and 3 current inputs
- calculated current of neutral wire
- continual sampling frequency 6,4 kHz
- THD U and THD I measurement
- odd harmonics of U and I till 19th order (L1, L2, L3)
- power factor (L1) and $\cos\varphi$ (L1, L2, L3)
- $P+/-$, $Q+/-$, S (L1, L2, L3, Σ)
- E active $+/-$, E reactive L $+/-$, E reactive C $+/-$
- measurement according the standard EN 61000-4-30
- measuring phase-phase voltage from 0 ... 520 VAC
- memory for maximums / minimums of avg values
- memory for recording of last 20 supply voltage interruptions
- real-time clock with supercap backup
- communication interface RS485 with Modbus RTU protocol
- two programmable digital inputs / outputs



Metering Current transformers

Advantages of Metering Current transformers

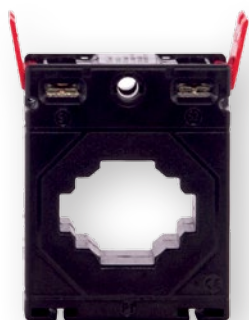


Applications

- Balanced systems: network analyzers, automatic power factor correction systems (PFCs)

Features

- Connection terminal with cover (IP20) for universal connection, no fork needed
- Bus bar or din rail mounting, included complete mounting set
- Standards: 61869-2



Metering Current transformers - Single Phase

Type	Code No.	Primary/secondary	Power [VA]	Accuracy class	Weight [g]	Packaging [pcs]
CTR-30 50/5 1,25VA CL.1	004805500	50/5	1,25	1	365	1/63
CTR-30 100/5 1,5VA CL.0,5	004805504	100/5	1,5	0,5	365	1/63
CTR-30 150/5 3,75VA CL.0,5	004805507	150/5	3,75	0,5	365	1/63
CTR-30 200/5 5VA CL.0,5	004805508	200/5	5	0,5	365	1/63
CTR-30 250/5 5VA CL.0,5	004805509	250/5	5	0,5	365	1/63
CTR-30 300/5 5VA CL.0,5	004805510	300/5	5	0,5	365	1/63
CTR-30 400/5 7,5VA CL.0,5	004805511	400/5	7,5	0,5	365	1/63
CTR-30 500/5 10VA CL.0,5	004805512	500/5	10	0,5	365	1/63