ENERGY ANALYZER | EA-C5

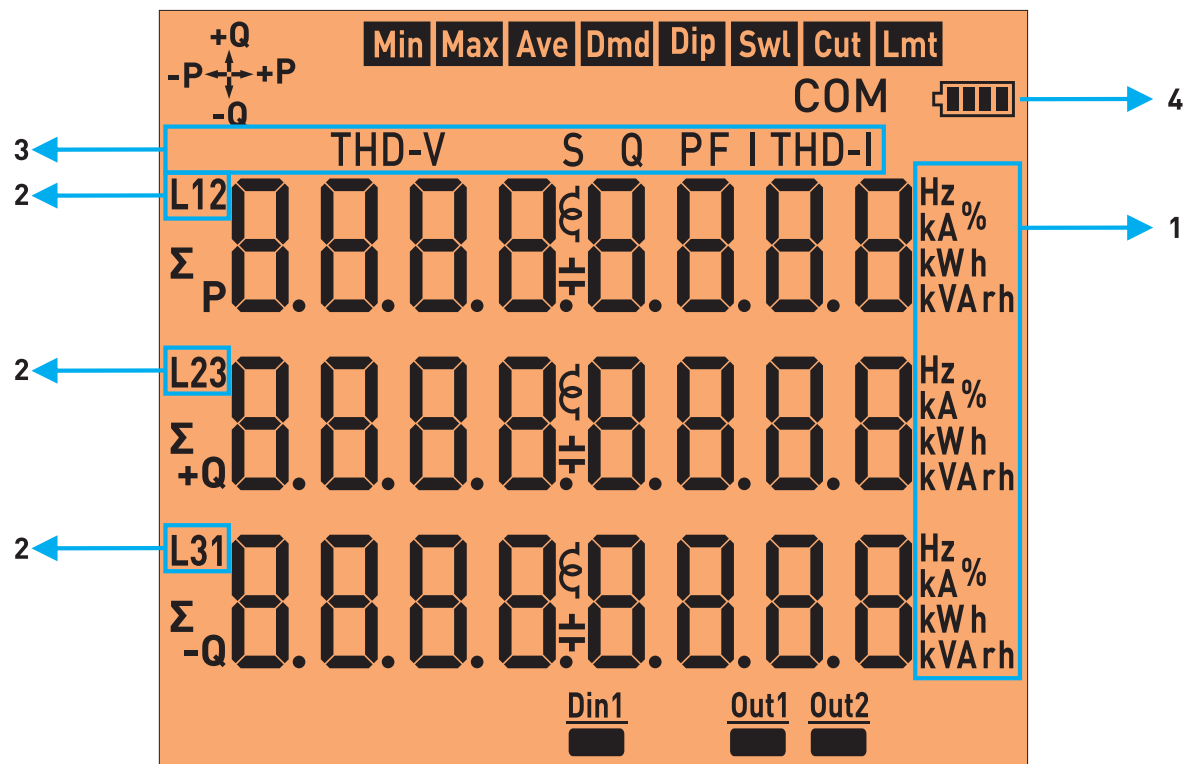**FEATURES**

PARAMETER	VALUE
Total Harmonics Distoriton	THD-V, THD-I
Voltage Harmonics	Up to 55st harmonics (L-N and L-L]
Current Harmonics	Up to 55st harmonics
Active Power	P1, P2, P3, ΣP
Reactive Power	Q1, Q2, Q3, ΣQ
Q	S1, S2, S3, ΣS
Power Factor	True PF, cos φ (of each phase)
Voltage	phase-to-phase, phase-to-neutral (min, max & average values are saved)
Current	I1, I2, I3, ΣI (min, max & demand are saved)
Frequency	F1, F2 ,F3 (min, max & average)
Energy	ΣkWh (import & export) ΣkVARh (inductive & Capacitive)
Relay Output	2 Relay outputs (adjustable), 1 digital input
Irregularties	voltage and current İmplances
Screen	71.5 X 61.5 Custom Design Glass LCD
Communication	RS485 Modbus RTU
Event logs	High voltage, low voltage, power interruption, Voltage and current implances, high current, THD-V & THD-I limits
Real time Clock	Date and time can be set
Memory	You can delete energy values, demands records and event logs.
Password	Menu is password protected
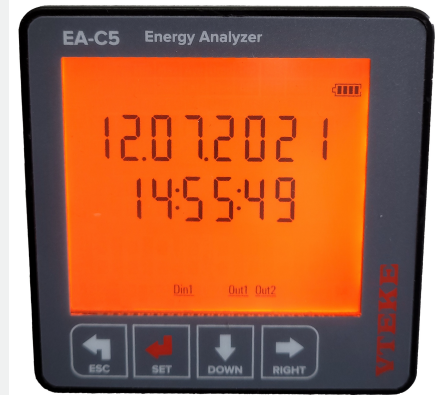
TECHNICAL SPECIFICATIONS

PARAMETER	VALUE
Operating Voltage	85V - 240 AC
Operating Frequency	50 / 60 Hz
Operating Power	<10VA
Operating Temperature	-20°C.....55°C
Input Voltage (L-N)	1V - 330VAC
Voltage Measuring Range	1V - 600kV
Input Current	1mA - 5,5A
Current Measuring Range	1mA - 50.000A
Voltage, Current, Accuracy	%±0.2
Active Energy Accuracy	%±0.5
Reactive Energy Accuracy	%±1
Supported Connection	3P4W
Current Transformer Ratio	1....5000
Voltage Transformer Ratio	1,0....9999
Harmonic Voltage	3 - 55
Harmonic Current	3 - 55
Real Time Clock	> 5 Year
Contact Output	2A / 250V AC [Resistive Load]
Digital Input	9V - 24V DC
Protection Class	IP41[Front Panel], IP20[Body]
Panel Hole Measurement	91mm x 91mm
Cable Diameter	1.5mm²

EA-C5   Energy Analyzer

12.07.2021
14:55:49

Din1   Out1 Out2

ESC   SET   DOWN   RIGHT

97,5 mm

97,5 mm

6,0 mm
26 mm   26 mm
89,7 mm
61,6 mm
17,8 mm
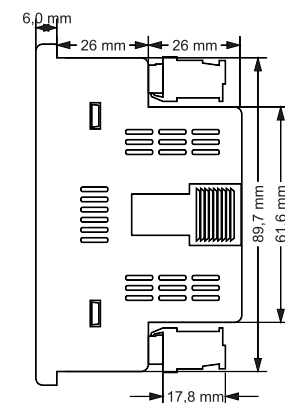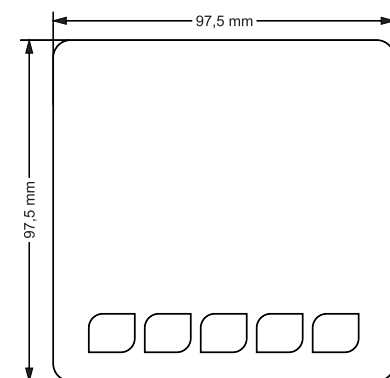
1 - Indicates the unit of the value.

2 - Indicates which phase the value belongs to .

3 - Indicates displayed values. V- voltage, I-current, F-frequency, S-apparent power, P- active power, PF- power factor, THD-I- total current harmonics, THD-V- total voltage harmonics, Q-reactive power.

4 - Indicates battery level of clock time.

+P Specified that the indicated active energies are imported.

-P Specified that the indicated active energies are exported.

+Q Specified that the indicated reactive energies are inductive.

-Q Specified that the indicated reactive energies are capacitive.

Specified that the indicated reactive energies are inductive.

Specified that the indicated reactive power are capacitive.

COM Indicates that communication is done.

Min Indicates that the values shown are minimum.

Max Indicates that the values shown are maximum.

Ave Indicates that the values shown are average.

Dmd Indicates that the values shown are demand.

Dip Indicates that the values shown are below 10%.

Swl Indicates that the values shown are over 10%.

Cut Indicates that the values shown are below 40%.

Lmt Indicates that the values shown are over 80% in current and over 20% in harmonics.

Din1 Din1: There is voltage(1)

Din1 Din1: There is no voltage(0)

Out1 Out1: Relay 1 is pulled (short circuit)

Out1 Out1: Relay 1 is released (open circuit)
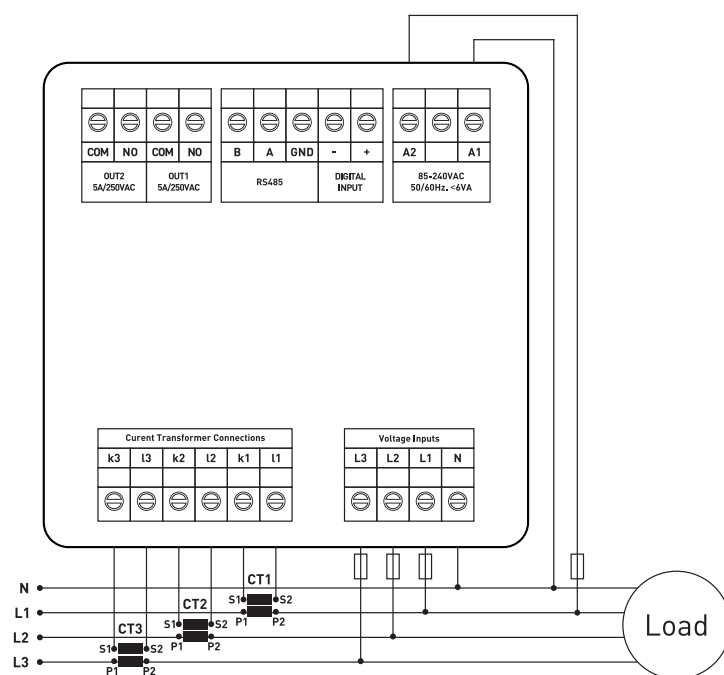
Out2 Out2: Relay 2 is pulled (short circuit)

Out2 Out2: Relay 2 is released (open circuit)

Σ P Total active energy

Σ +Q Total inductive reactive energy

Σ -Q Total capacitive reactive energy

Parameter Number	Parameter	Unit	Factory Value	Minimum Value	Maximum Value
Ctr	Current Transformer Ratio	–	1	1	5000
Vtr	Voltage Transformer Ratio	–	1.0	0.1	999.9
br	Baudrate	bps	9600	1200	115200
–	Stop bits	–	1	–	–
–	Data bits	–	8	–	–
–	Parity	–	none	–	–
Id	ModBus ID	–	1	1	247
En	Deleting Total Energy	–	No	Yes	No
dE	Deleting Demand Values	–	No	Yes	No
L0	Deleting Event Records	–	No	Yes	No
PASS	Password	–	0	0	9999
Con Type	Connection Type	–	3P4L	3P4L	3P3L
Date Set	Date	–	–	2000	2100
Time Set	Hour	–	–	–	–
Par	Parametre	–	OFF	OFF, Uln, Iln, Ilt, thdU, thdI, PF, U Un, I Un, dI n	
Fun	Function	–	High	High	Low
UAL	Uln (voltage)	Volt	vtr x 10	vtr x 10	vtr x 500
	Iln (Current)	Amper	(ctrx10)/100	(ctrx10)/100	(ctrx500)/100
	Ilt (Total Current)	Amper	(ctrx3x10)/100	(ctrx3x10)/100	(ctrx3x500)/100
	thdU (Total Voltage Har.)	%	1	1	50
	thdI (Total Current Har.)	%	1	1	50
	PF (Power Factor)	%	0.50	0.50	0.99
	U Un (Voltage imbalance)	%	1	1	50
	I Un (Current Imbalance)	%	1	1	50
Dip	Low Voltage	%	<Vtr x 230 x 0,90 ve <Vtr x 400 x 0,90		
Swl	High voltage	%	>Vtr x 230 x 1,10 ve >Vtr x 400 x 1,10		
Cut	No Voltage	%	<Vtr x 230 x 0,40 ve <Vtr x 400 x 0,40		
Lmt I	Current Limit	%	>Ctr x 0.80		
Lmt Thd-V	Thd-V Limit	%	>1.20		
Lmt Thd-I	Thd-I Limit	%	>1.20		
Lmt PF	Power Factor Limit	%	<0.80		
dI n	Data Input Frequency	Hz.	>1Hz.		