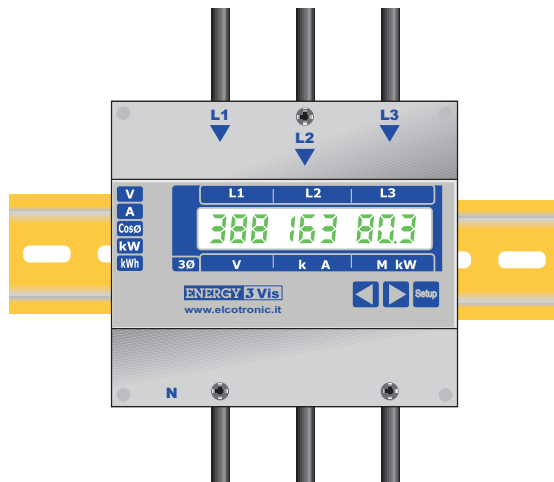


ENERGY3 VIS User Manual

revised 10/07/2007



MEASUREMENTS IN RMS TRUE VALUE

	Volt RMS	Amp RMS	Cosφ	kW	kWh	pulses
3-PHASE	✓	✓		✓	✓	✓
L1	✓	✓	✓	✓		
L2	✓	✓	✓	✓		
L3	✓	✓	✓	✓		

OPERATORS' SAFETY

All operators should carefully read these pages, before installing and using the instrument. Only properly trained personnel should use this instrument.

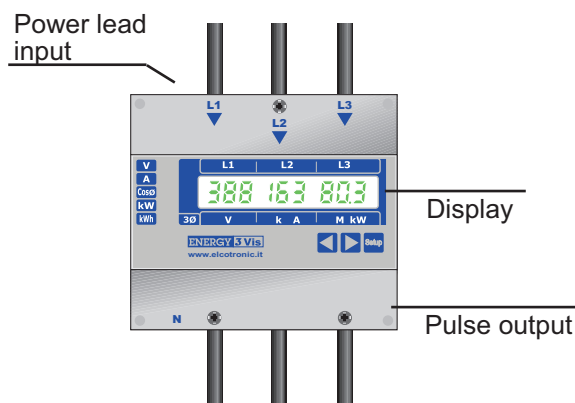
All maintenance and repair operations to be carried out with the open instrument should be performed by Elcotronic qualified personnel, or by an operator duly authorized by Elcotronic srl. This instrument has been manufactured and tested in compliance with IEC 348 and VDE 411 standards, and was delivered under perfect safety conditions.

If the instrument looks unsafe, i.e. as a result of damages occurred during transit or caused by use, it should be put out of use and carefully inspected by authorized personnel.

Before plugging in the instrument, make sure that rated voltage and mains voltage are the same value. When the instrument needs to be opened for maintenance and servicing or for replacing parts, it must be first disconnected from all power sources.

Make sure that the spare parts used are of the type required and meet the technical specifications provided.

WARNING: Elcotronic srl shall not be held responsible for any damages to people or things, resulting from improper use of the instrument.



THREE-PHASE model with internal CTs
36-72-140 Amp.

TECHNICAL SPECIFICATIONS

Measurements made	in RMS true value
Accuracy	± 2%
Input power	directly fed upon measuring
Inputs	380 phase/phase
Display	green LEDs
Size	6 DIN modules
Protection rating	instrument: IP20 front: IP40
Temperature range	-10°C +45°C
Relative humidity	max 90%
Insulation	complying with applicable standards
Pulse output	100 pulses/kWh



We hereby declare that Energy3 instruments comply with EEC directives EMC 89/336/EEC and meet the requirements concerning EMISSIONS and IMMUNITY.

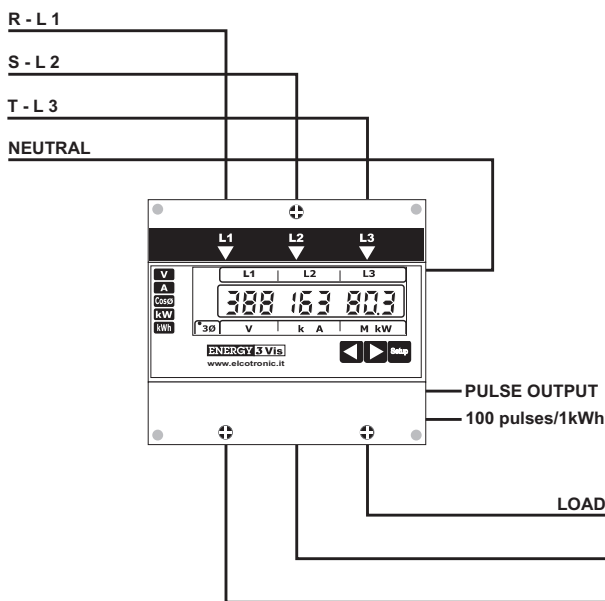
INSTALLATION

To connect the instrument proceed as follows:

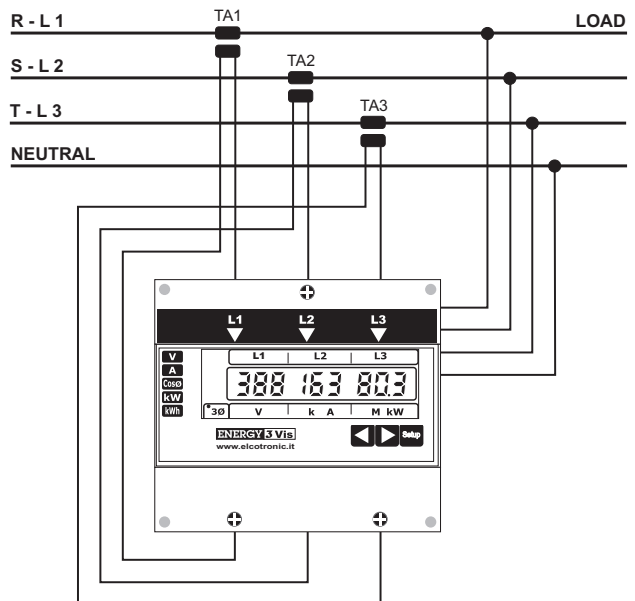
- 1) Switch off the panel where the instrument shall be installed.
- 2) Place the instrument on the DIN rail
- 3) Lead the cables through the holes marked with L1, L2 and L3; the current transformers located inside will detect the current flowing through the cable to make measurements;
- 4) tighten the screws on the instrument front to apply voltage;
- 5) connect neutral to a terminal;
- 6) once these operations have been performed, turn power on and apply a load: the instrument will start working.

WIRING DIAGRAM

EN3 VIS- with internal CTs




EN3 VIS- with external CTs



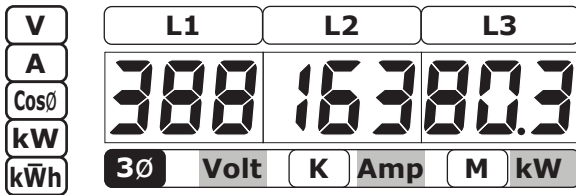
READING pages

Measurements required: see READING pages + SETUP pages

pressing  moves a step forward; displayed value remains fixed

pressing  moves a step backward; displayed value remains fixed

pressing the Setup key changes to Setup Mode



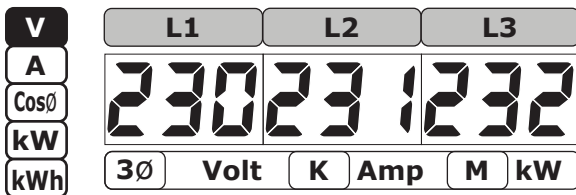
VIS 1

Pressing < and > moves reading pages forward and backward

Three-phase reading of Volt, Amp, kW

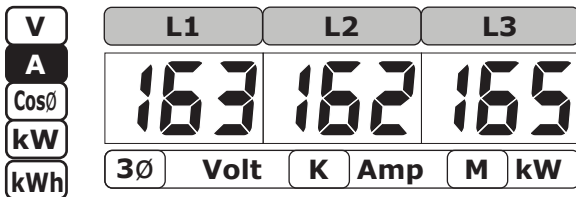
Led K ON stands for KAmp

Led M ON stands for MWatt



VIS 2

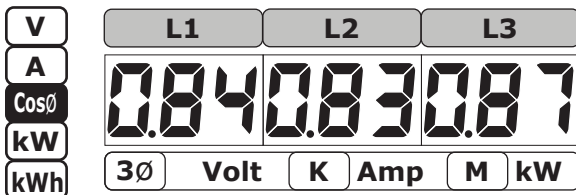
Reading of phase-neutral Volts L1-L2-L3



VIS 3

Reading Amp L1-L2-L3

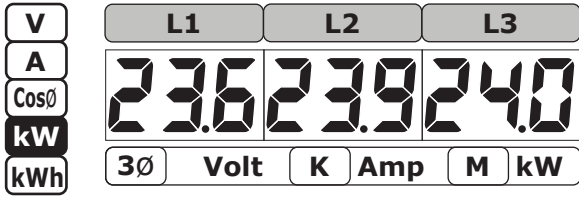
Led K ON stands for KA



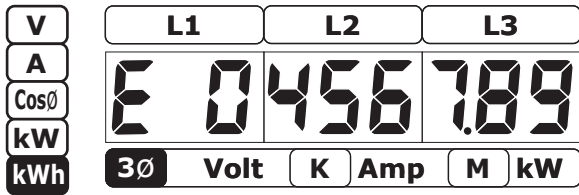
VIS 4

Reading CosØ L1-L2-L3
,84 inductive



READING pages**VIS 5**

Instant kW reading

**VIS 6**Three-phase kWh reading (99,999.99).
Pressing the setup key will reset the displayed value

SETUP pages (only 5A instruments)

V	L1	L2	L3
A	6A		0000
Cosφ			
kW	3Ø	Volt	K Amp M kW
kWh			

SETUP 1

Entering CT value
example: 50/1 = 50
 500/5 = 100
Max. K value: 250





Via Serraglio, 48
40026 Imola (Bo) Italia
tel. 0542 641770 • fax 0542 641761
www.elcotronic.it • info@elcotronic.it