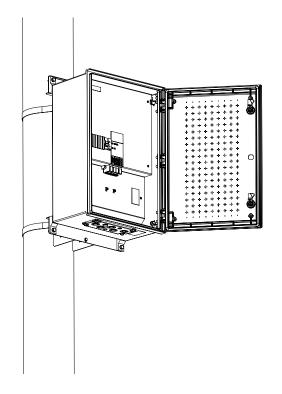


INSTALLATION INSTRUCTION PEM1759ENG 2019-02

ENGLISH



VOLTAGE CONTROLLER VC6K-1P-000

GENERAL INFORMATION

- Check that the product is suitable for the cable type.
- Check the materials listed in the bill of materials for completeness.
- Read the installation instructions carefully before starting the installation.
- Install carefully and make sure the materials are clean during the installation.
- Clean the working place after the installation.

LEGAL NOTICE

- The product must be installed only by a competent person with sufficient training in installation practices and with sufficient knowledge of good safety and installation practices in respect of electrical equipment. If local legislation contains provisions in respect of such training or sufficient knowledge in respect of installation of electrical equipment such provisions shall be fulfilled by the said person.
- Ensto accepts no liability concerning claims resulting from misuse, incorrect installation or ignored national safety regulations or other national provisions.
- WARNING: Failure to follow the installation instructions may result in damage to the product and serious or fatal injury.



DANGEROUS VOLTAGES ARE EXPOSED WITHIN ENSTO VOLTAGE CONTROLLER. ONLY A COMPETENT ELECTRI-CIAN IS ALLOWED TO CARRY OUT THE ELECTRICAL INSTALLATION!

Bill of material

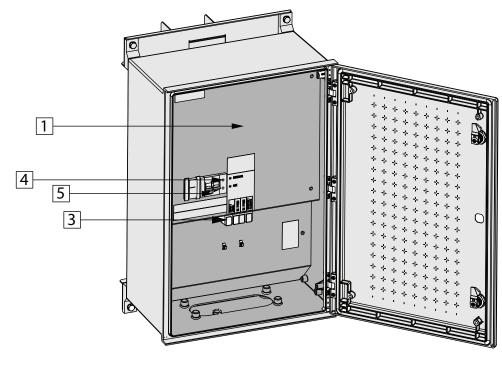
Part	PCS
Voltage Controller	1
Pole adaptor	1
Counter parts for pole adaptor	2
Manual	1
Test report	1
Triangular key	1
Cable gland set 3xM16 + 2xM20 + 2xM25	1
Bolt M8x25mm	4
Washer M8	8
Nut M8	4
Spring washer M8	4
Hex bolt M6x10 mm	1
Clampo Pro terminal shroud	1

Recommended additional products (not included in the package).

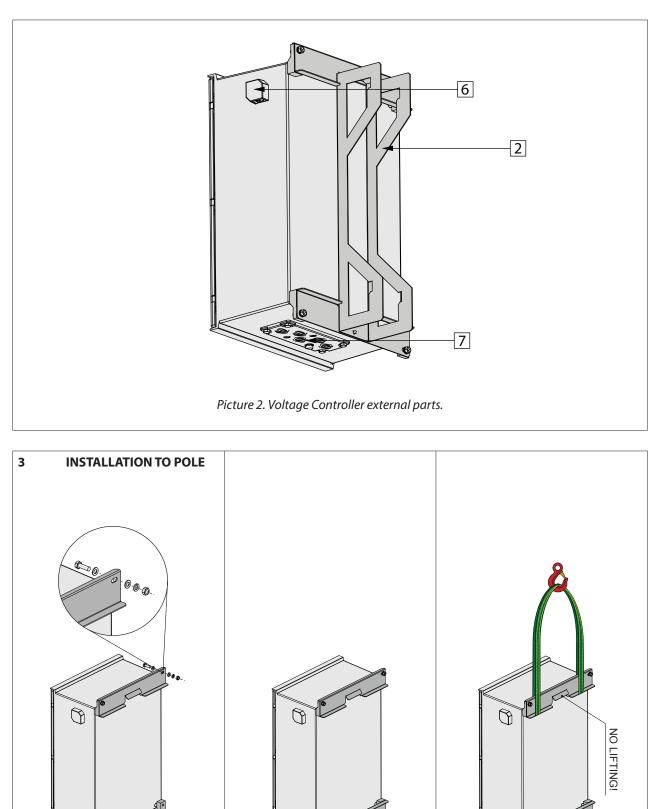
Surge arrester to input side SE46.328-10 or SE45.328-10
Metal band COT37
Metal buckle COT36
Tool CT42
Connector SLIP12.1

Туре	VC6K-1P-000
Rated power (Pn)	6 kVA
Rated voltage (Un)	230 VAC
Rated frequency (fn)	50 Hz
Rated current (Inc)	25 A (OUT), 28A (IN)
Rated operational voltage (Ue)	160260 VAC
Network	TN / TT
Rated impulse withstand voltage (Uimp)	6 kV
IP class	IP-54
Internal short circuit protection device	MCB C-curve, 50 A, Icu 6 kA
Cable connections	CU 2.5 – 50 mm ²
	Al 6 – 50 mm²
Dimensions (W x H x D) External mechanical impact	400 x 600 x 350 mm (inc. pole adapter IK 10
2 SERVICE CONDITIONS	
Ambient air temperature	- 35 ℃+ 40 ℃
Humidity conditions for outdoor installation	100% (+25 °C)
Max installation altitude	≤ 1000 m
3 STORAGE AND HANDLING	
Ambient storage temperature (indoor storage)	- 40 °C + 40 °C
4 PACKING DETAILS	
Weight	40 kg
Dimensions (W x H x D)	650 x 540 x 260 mm

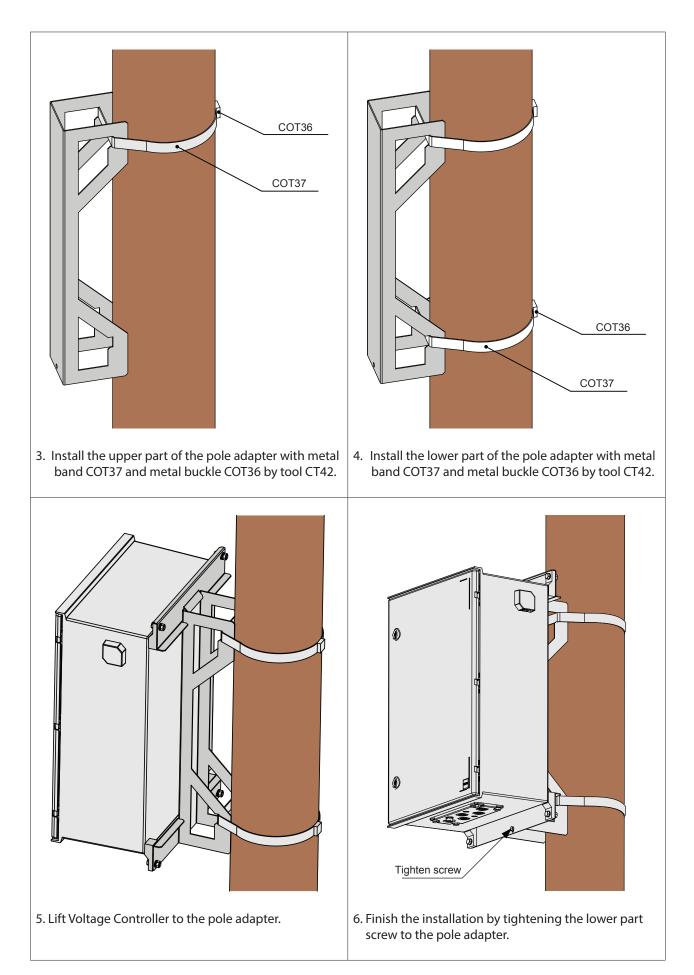
Ensto Voltage Controller Installation Guide	
1	GENERAL This guide gives basic information about mechanical and electrical installation of Ensto Voltage Control- ler.
	All mechanical installation equipment is based on standard Ensto components.
2	INTRODUCTION Voltage Controller internal and external parts are shown in picture 1. and picture 2. Following compo- nents can be found from those pictures.
[1]	Electronic and Transformer Module All electronics and transformer are placed behind the plastic cover.
[2]	Pole Adapter Voltage Controller is mounted to pole with the pole adapter.
[3]	Input/Ouput/Neutral terminals
[4] [5]	LED-indications 50A Miniature Circuit Breaker
[6]	Ventilation Filter In
[7]	Knockout Flange

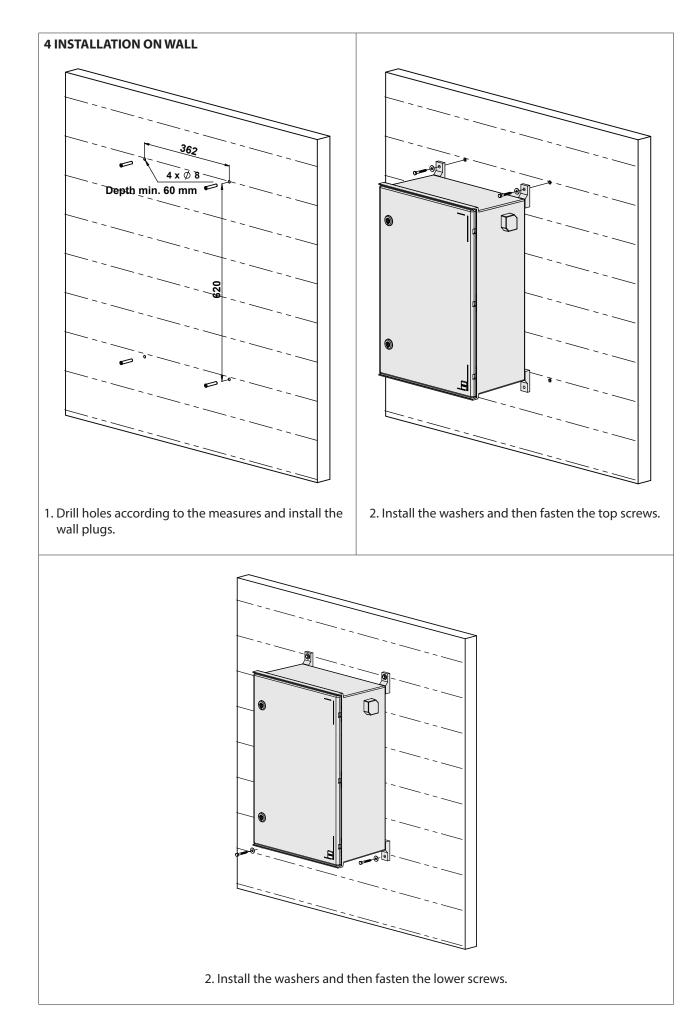


Picture 1. Voltage Controller internal parts.



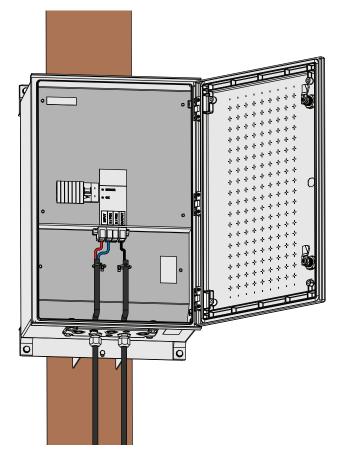
1. Install the upper part to Voltage
Controller.2. Install the lower part to Voltage
Controller3. Attach lifting ropes to the upper
steel part. Warning: Do not lift
from the center.



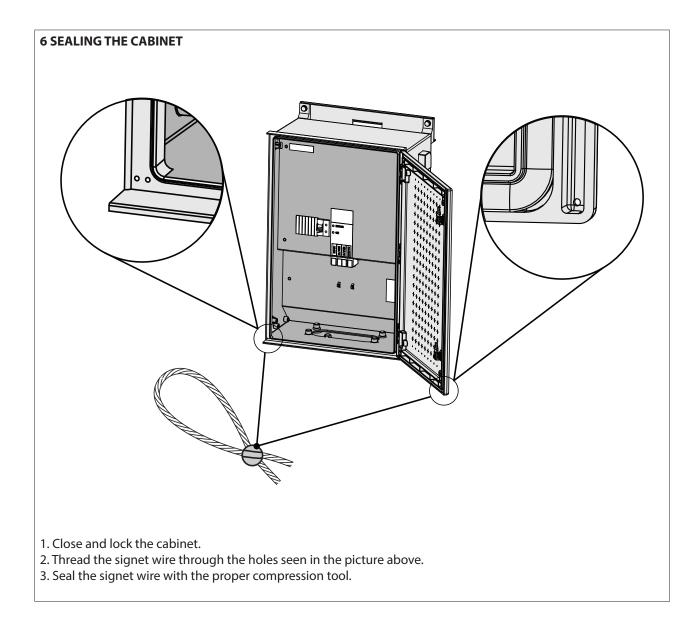


5 ELECTRICAL INSTALLATION

For your own safety, cut the line power before mounting and starting electrical installation. Voltage Controller is connected in series between the feeding line and consumer. To gain most of the benefit Voltage Controller should be installed near to the consumer point.



- 1. Select the installation location.
- 2. Measure and prepare jump wires that are connected between existing line and the Voltage Controller.
- 3. Prepare the knockout flange according to cable diameters.
- 4. Mount Voltage Controller to the pole or wall.
- 5. Cut the phase wire of the distribution line.
- 6. Install surge arrester between input phase and earth.
- 7. Connect the PEN jump wire to the PEN-terminal.
- 8. Connect the input and output phase wires to the terminals.
- 9. Check that everything is properly installed before switching power on.
- 10. Switch power and miniature circuit breaker on.
- 11. Check that green LED is on and red LED is off.
- 12. Measure input and output voltages.
- 13. Close the door, installation is ready.
- 14. Seal the door if necessary.





ENSTO FINLAND OY ENSIO MIETTISEN KATU 2, P.O.BOX 77 06101 PORVOO, FINLAND TEL. +358 204 76 21 FAX +358 204 762 770 UTILITY.NETWORKS@ENSTO.COM

WWW.ENSTO.COM