

Read this document carefully before using this device. The guarantee will be expired by damaging of the device if you don't attend to the directions in the user manual. Also we don't accept any compensations for personal injury, material damage or capital disadvantages.

ENDA EPV141 AC/DC VOLTMETER

Thank you for choosing ENDA EPV141 AC/DC voltmeter.

- * 77 x 35mm sized.
- * 3 digits display.
- * Values between -100V and 100 V can be indicated with one decimal number.
- * Easy to use by front panel keypad.
- * Multifunctional alarm output (NO+NC) for upper and lower limits.
- * CE marked according to Europan Norms.

Order Code : EPV141- $\frac{}{1}$ - $\frac{}{2}$

1 - Output R...... Relay None...No relay 2 - Supply Voltage 230VAC...230V AC 24VAC....24V AC

SM......9-30V DC / 7-24V AC



Technical Specifications

ENVIRONMENTAL CONDITIONS		
Ambient/stroge temperature	0 +50°C/-25 70°C	
Max. Relative humidity	80% up to 31°C decreasing linearly 50% at 40°C.	
Rated pollution degree	According to EN 60529 Front panel : IP65 , Rear panel : IP20	
Height	Max. 2000m	
Do not use the device in locations subject to corrosive and flammable gases		

ELECTRICAL CHARACTERISTICS				
Supply	230V AC +10% -20%, 50/60Hz or 24V AC ±10% , 50/60Hz or optional 9-30V DC / 7-24V AC ±10% SMPS			
Power consumption	Max. 5VA			
Wiring	2.5mm² screw-terminal connections			
Scale	AC and RMS 0V500V DC -500V500V			
Sensitivity	0,1V (for input values between -100V and 100V) 1V (for input values that lower than -100V and higher than 100V)			
Accuracy	AC			
Input Range	-500V500V (Device damages 1250V peak and more voltage.)			
Input Impedance	870kΩ			
Frequency Range	DC , 10Hz - 200Hz (For square wave form 10Hz-70Hz)			
EMC	EN 61326-1: 1997, A1: 1998, A2: 2001 (Performance criterion B for the EMC standard.)			
Safety requirements	EN 61010-1: 2001 (Pollution degree 2, overvoltage category II)			

OUTPUTS	
Alarm output	Relay: 250V AC, 8A (for resistive load), NO+NC
Life expectancy for relay	Mechanical 30.000.000 ; Electrical 100.000 operation.
HOUSING	

HOUSING			
Housing type	Suitable for flush-panel mounting. (According to DIN 43 700)		
Dimensions	W77xH35xD71mm		
Weight	EPV141 Approx. 350g (after packing) EPV141-24 Approx. 350g (after packing)		
Enclosure material	Self extinguishing plastics.		
<u> </u>			

1/3

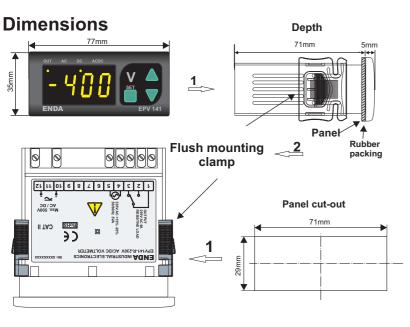
While cleaning the device, solvents (thinner, benzine, acid etc.) or corrosive materials must not be used.

Yukarı Dudullu Barbaros Cad. Kutup Sok. No:20 34775 - ÜMRANİYE/İSTANBUL/TÜRKİYE Tel : +90 216 499 46 64 Pbx. Fax : +90 216 365 74 01

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url: www.enda.com.tr

EPV141-E-05-R

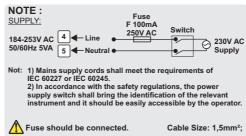


For removing mounting clamps:

- Push out the flush-mounting clamp In direction 1 shown in figure below.
- Pull out the clamp in direction 2

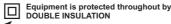
Note:

- 1) Panel thickness should be maximum 7mm.
- 2) If there is no 60mm free space at the back side of the device, it would be difficult to remove it from the panel.



ENDA INDUSTRIAL ELECTRONICS

EPV141-R-SM AC/DC VOLTMETER







SN: XXXXXXXXX

CAT II

Max. 500V

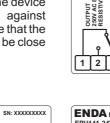
AC / DC

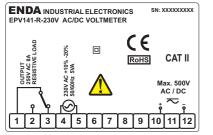
10 11 12

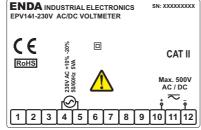
Connection Diagram

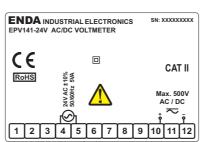


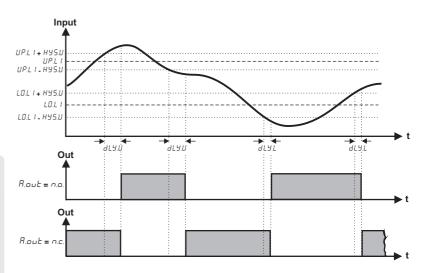
ENDA EPV141 is intended for installation in control panels. Make sure that the device is used only for intended purpose. The electrical connections must be carried on by a qualified staff and must be according to the relevant locally applicable regulations. During an installation, all of the cables that are connected to the device must be free of energy. The device must be protected against inadmissible humidity, vibrations, severe soiling and make sure that the operation temperature is not exceeded. The cables should not be close to the power cables or components.

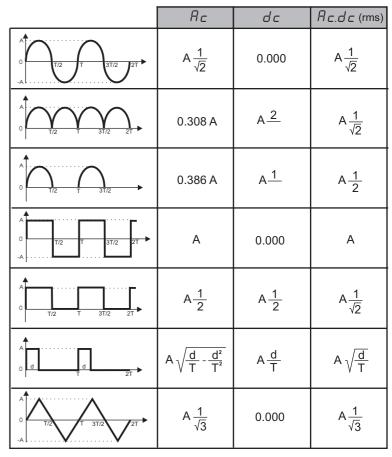




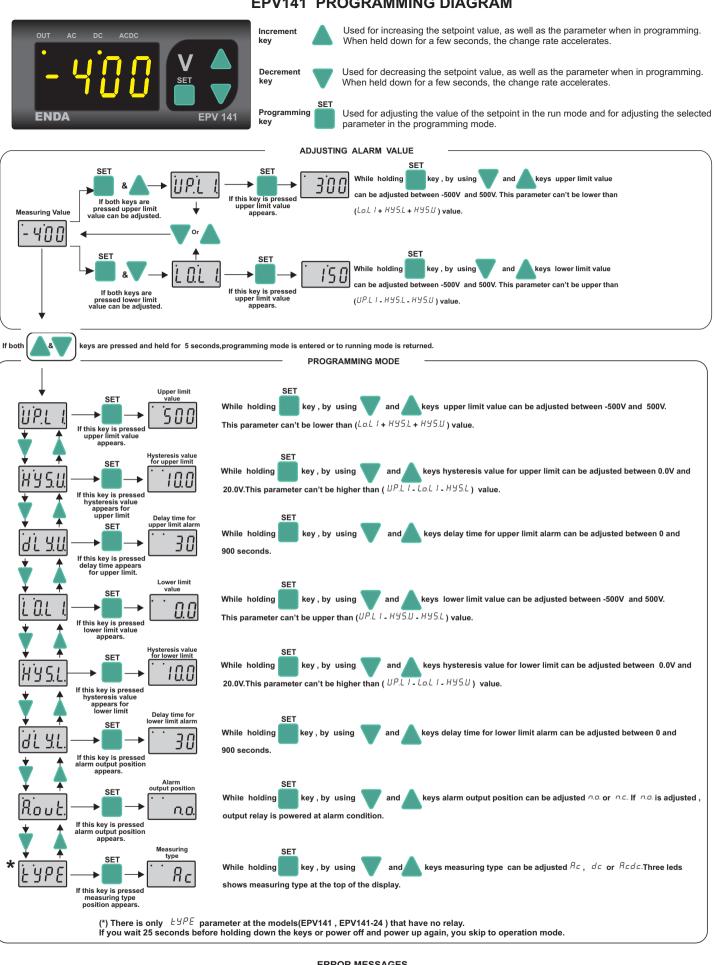








EPV141 PROGRAMMING DIAGRAM



ERROR MESSAGES Means, measured voltage value is higher than up scale. Means, measured voltage value is lower than down scale.