

Read this document carefully before using this device. The guarantee will be expired by device damages 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 EPV942 PROGRAMMABLE AC/DC VOLTMETER

Thank you for choosing ENDA EPV942 Programmable AC/DC voltmeter.

- ▶96 x 96 mm sized
- 4 digits display
- Selectable number of decimal point
- Can be displayed between -999 and + 9999V by using voltage transformer
- Easy to use front panel keypad
- Multi-function alarm output for lower and upper limits (NO + NC)
- Multi-function alarm setpoints with alarm output (NO)
- Communication feature over isolated RS485, using ModBus RTU protocol (Optional)
- Measuring type can be selected as AC, DC or true RMS (ACDC)
- CE Marked according to Europan Norms.

Order Code : EPV942 - ____-

		itnut 3 - Modbus	
1 - Supply Voltage 230230V AC LV10-30V DC / 8-24V AC	2 -Output R10A(Out)Relay 2R10A(Out+Alr)Relay	3 - Modbus RSIRS485 Modbus Available (Specify at order)	



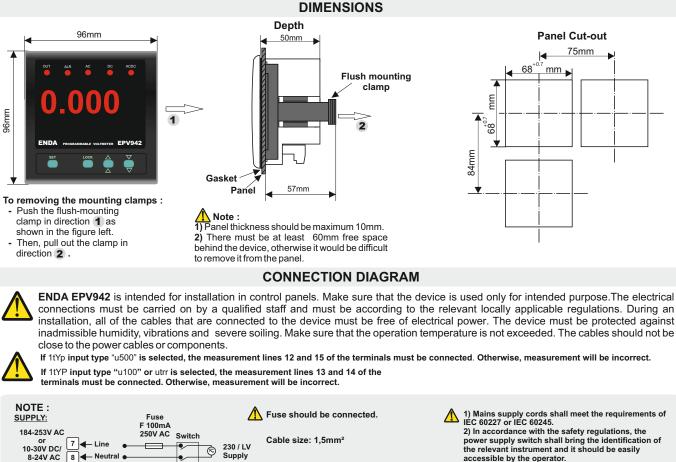
R_®HS Compliant

ENVIRONMENTAL CONDITIONS				
Ambient / Storage Temperature	0 +50°C/-25 +70°C (with no icing)			
Max. Relative Humidity	80% Relative humidity for temperatures up to 31°C, decreasing linearly to 50% at 40°C.			
Rated Pollution Degree	According to EN 60529 ; Front Panel : IP65, Rear Panel : IP20			
Height	Max. 2000m			
KEEP AWAY device from exposed to corrosive, volatile and flammable gases or liquids and DO NOT USE the device in similar hazardous locations.				

ELECTRICAL CHARACTERISTI	LECTRICAL CHARACTERISTICS				
Supply Voltage	230V AC 50/60Hz ; 10-30V DC / 8-24V AC SMPS				
Power Consumption	Max. 5VA				
Wiring	2.5mm ² screw-terminal connections				
Scale	AC and RMS DC For UTRR 09999V, 9999999V DC, for UI00 0100V, -100100V DC, for U500 0500V -500+500V DC -500+500V DC -500+500V DC -500+500V DC -500+500V DC				
Sensitivity	0,01V (If, utrr is selected) 0,1V (If, utrr or US00 is selected and higher than -100V, lower from 100V for input values) 1V (If utrr or US00 is selected and lower than -100V, higher from 100V for input values)				
Accuracy	AC $\pm \%1$ (Full scale)(For square wave form $\pm 2\%$)DC $\pm \%1$ (Full scale)RMS $\pm \%_1$ (Full scale)(For square wave form $\pm 2\%$)				
Input Range	-500V500V (Device will be damaged if more than ±1250 DC voltages applied when u500 is selected) -100V100V (Device will be damaged if more than ±250 DC voltages applied when u500 or utrr is selected)				
Input Impedance	870κΩ				
Frequency Range	DC, 10Hz - 200Hz (For square wave form 10Hz-70Hz)				
EMC	EN 61326-1: 2013				
Safety Requirements	EN 61010-1: 2010 (Pollution degree 2, overvoltage category II)				
OUTPUTS					
Output	250V AC, 10A (for resistive load), NO+NC				
Alarm output	250V AC, 10A (for resistive load), NO+NC				
Life expectancy for relay	Mechanical 30.000.000 ; Electrical 100.000 operation.				
HOUSING					
Housing Type	Suitable for flush-panel mounting. (According to DIN 43 700)				
Dimensions	W96xH96xD50mm				
Weight	Approx. 410g (after packing)				
Enclosure Material	Self extinguishing plastics.				
Avoid any liquid contact when the device is switched on. DO NOT clean the device with solvent (thinner, gasoline, acid etc.) and / or abrasive cleaning agents.					

SURAN Industrieelektronik An der Hanfrötze 6 / D-77731 Willstätt

OUTPUT GRAPHICS



ENDA INDUSTRIAL ELECTRONICS EPV942-230-2R-RSI PROGRAMMABLE AC/DC VOLTMETER .**e**o¤ RoHS

50/60Hz 7VA

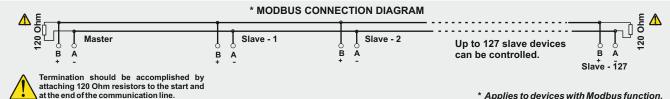


1) Mains supply cords shall meet the requirements of IEC 60227 or IEC 60245. 2) In accordance with the safety regulations, the power supply switch shall bring the identification of the relevant instrument and it should be easily accessible by the operator.

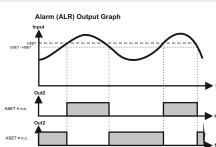
75mm

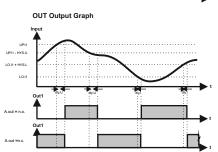






* Applies to devices with Modbus function.





	ac	dc	Ac.dc (rms)
	$A\frac{1}{\sqrt{2}}$	0.000	$A\frac{1}{\sqrt{2}}$
	0.308 A	A <u>2</u>	$A\frac{1}{\sqrt{2}}$
	0.386 A	$A\frac{1}{\pi}$	$A\frac{1}{2}$
A 0 T/2 T 3T/2 2T	A	0.000	A
	$A\frac{1}{2}$	$A\frac{1}{2}$	$A\frac{1}{\sqrt{2}}$
	$A\sqrt{\frac{d}{T}}-\frac{d^2}{T^2}$	A <u>d</u> T	$A\sqrt{\frac{d}{T}}$
	$A\frac{1}{\sqrt{3}}$	0.000	$A\frac{1}{\sqrt{3}}$

2./3 EPV942-E-07062023

