

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 EPV741A AC/DC VOLTMETER

Thank you for choosing ENDA EPV741A AC/DC voltmeter.

- * 72 x 72mm sized.
- * 3 digits display.
- * Values between -100V and 100 V can be indicated with one decimal point. * For maximum 50V AC/DC measurements, measurements between -50V and +50V can be shown with two decimal digits by having 10 times more accurate measurement input.
- * Easy to configure with front panel keypad.
- * Multyfunctional alarm output (N.O.) for upper and lower limits.
- * Communication feature over isolated RS485, using ModBus RTU protocol (Functional).
- * Measuring type can be selected as AC, DC or true RMS.
- * CE marked according to Europan Norms.

Order Code : EPV741A- $\begin{bmatrix} - & - & - & - \\ 1 & 2 \end{bmatrix}$ - $\begin{bmatrix} - & - & - & - \\ 3 & 3 \end{bmatrix}$

1-Output RRelay NoneNo relay	2-Supply Voltage 230VAC230V AC 110VAC110V AC 24VAC24V AC	3-ModBus RSI Insulated ModBus (optional)
	SM9-30V DC / 7-	-24V AC



R_®HS (F Compliant

Technical Specifications

ENVIRONMENTAL CO	NDITIONS
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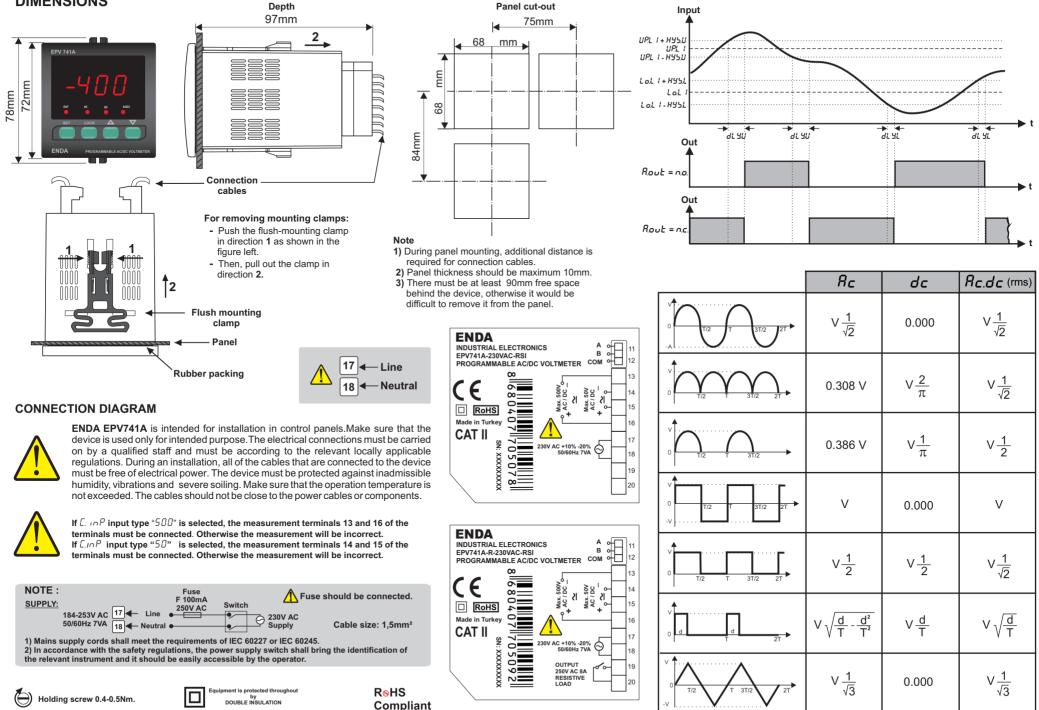
ENVIRONMENTAL	CONDITIONS				
Ambient/stroge temp	erature 0 +50°C/-25 70°C				
Max. Relative humid	ity Max. humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C.				
Rated pollution degr	ree According to EN 60529 Front panel : IP65 , Rear panel : IP20				
Height	Max. 2000m				
Do not use t	he device in locations subject to corrosive and flammable gases.				
ELECTRICAL CHA	ARACTERISTICS				
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	2.5mm ² screw-terminal connections				
Scale	AC and RMS : If <i>L</i> , <i>nP</i> ; 500 is selected, it is 0V500V or If <i>L</i> , <i>nP</i> ; 50 is selected, it is 050V DC or If <i>L</i> , <i>nP</i> ; 50 is selected, it is -50V DC50V DC or If <i>L</i> , <i>nP</i> ; 50 is selected, it is -50V DC50V DC				
Sensitivity	<pre>IV (If £, inP;50 is selected) V (If £ inP;500 is selected and higher than -100V or lower than 100V for input values) (If £ inP;500 is selected and lower than -100V or higher than 100V for input values)</pre>				
Accuracy	AC $\pm 1\%$ (Full scale)(For square wave form $\pm 2\%$)DC $\pm 1\%$ (Full scale)RMS $\pm 1\%$ (Full scale)(Full scale)(For square wave form $\pm 2\%$)				
Input Range	-500V500V (If L in P 500 is selected, device breaks down at more than ±1250 DC voltages.) -50V50V (If L in P 50 is selected, device breaks down at more than ±125 DC voltages.)				
Input Impedance	870κΩ				
Frequency Range	DC, 10Hz - 200Hz (For square wave form 10Hz-70Hz)				
EMC	EN 61326-1: 2013				
Safety requirements	EN 61010-1: 2012 (Pollution degree 2, overvoltage category II)				
OUTPUTS					
Alarm output	Relay: 250V AC, 8A (for resistive load), N.O.				
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	W72xH72xD97mm				
Weight	Approx. 250g (after packing)				
Enclosure material	Self extinguishing plastics.				
While clea	ning the device, solvents (thinner, benzine, acid etc.) or corrosive materials must not be used.				



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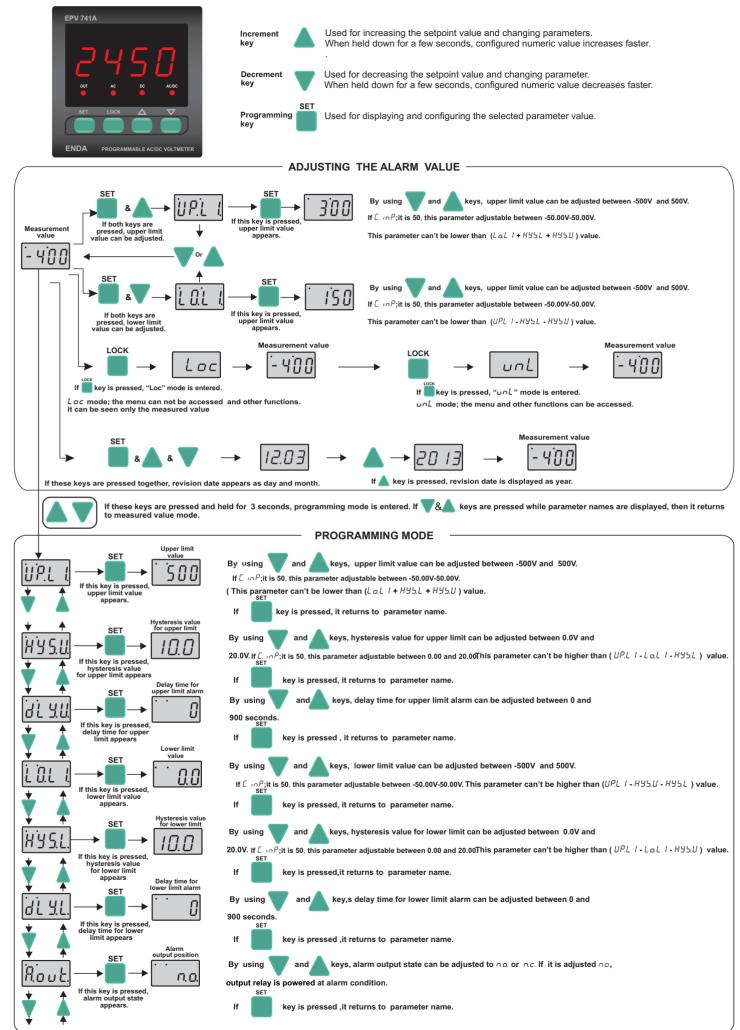


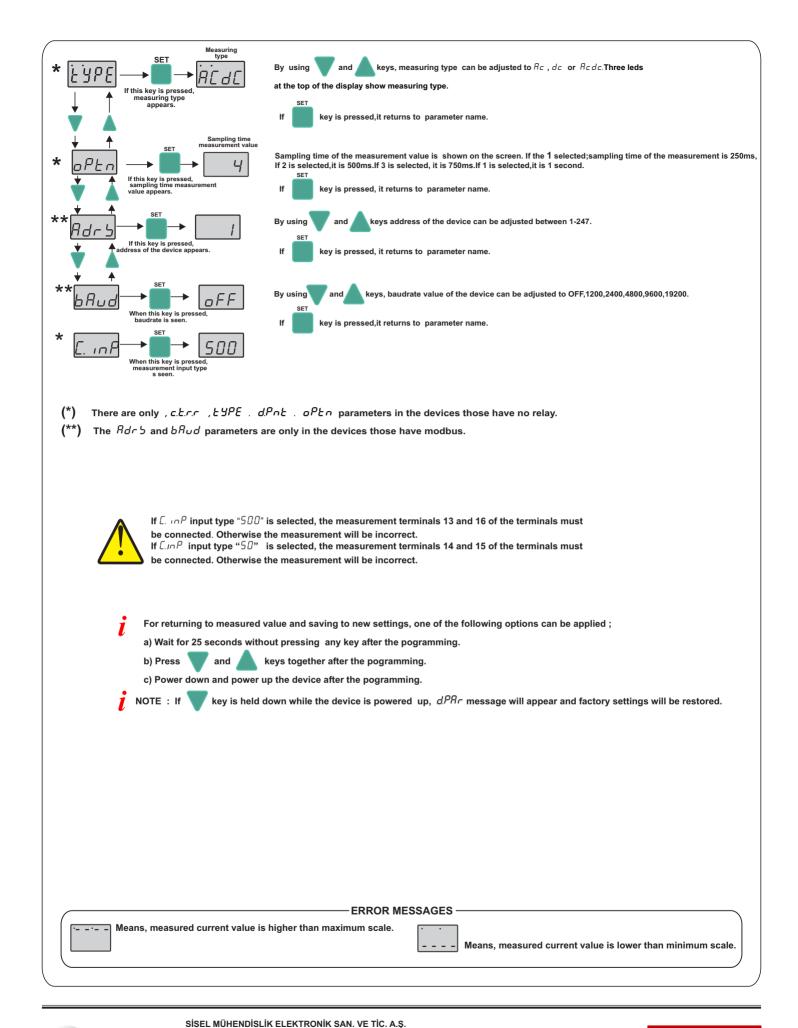
DIMENSIONS



2/5

EPV741A PROGRAMMING DIAGRAM







SISEL MUHENDISLIK ELEK I KONIK SAN. VE TIC. A.Ş Şerifali Mah. Barbaros Cad. No:18 Y.Dudullu 34775 ÚMRANİYE/İSTANBUL-TURKEY Tel : +90 216 499 46 64 Pbx. Fax : +90 216 365 74 01 url : www.enda.com.tr



ENDA EPV741A DIGITAL VOLTMETER MODBUS PROTOCOL ADDRESS MAP

Holding Addro	Register esses	Data	Data Content		Parameter Name	r Read/Write Permission	Status Value
Decimal	Hex	Туре					
0000d	0x0000	word	The upper limit of the setpoint		uPL I	Readable/Writable	500
0001d	0x0001	word	The upper limit of the hysteresis value		<i>НУ</i> 5 <i>0</i>	Readable/Writable	10.0
0002d	0x0002	word	elay time for the upper limit alarm		<i>dLYU</i>	Readable/Writable	0
0003d	0x0003	word	The lower limit of the setpoint	e lower limit of the setpoint		Readable/Writable	0
0004d	0x0004	word	The lower limit of the hysteresis value	r limit of the hysteresis value		Readable/Writable	10.0
0005d	0x0005	word	Delay time for the lower limit alarm		dL YL	Readable/Writable	0
0006d	0x0006	word	Neasurement method ($\square=\square$, $I=d\square$, $2=\square\square$	[]2=A[d[)		Readable/Writable	8696
0007d	0x0007	word	npling time of the measurement value.If 1 is selected, 250ms. If 2 is selected, it is 500ms. If 3 is selected, 750ms. If 4 is selected, it is 1 second.		oPtn	Readable/Writable	Ч
0008d	0x0008	word	Device address for RS485 network connection. Adjustable between 1-247.	Rdfs		Readable/Writable	1
0009d	0x0009	word	Baudrate (0=Off;1=1200;2=2400; 3=4800; 4=9600; 5=	19200)	ьЯIJд	Readable/Writable	oFF
*Holding	Register	Param	ter Table (No Relay Models)				
b0000	0x0000	word	Aeasurement method ($D=RE$, $I=dE$, $2=REdE$)		ŁYPE	Readable/Writable	8690
0001d	0x0001	word	Sampling time of the measurement value		oPtn	Readable/Writable	4
0002d	0x0002	word	Device address for RS485 network connection. Adjustable between 1-247.		885 885	Readable/Writable	1
0003d	0x0003	word	Baudrate (0=Off;1=1200;2=2400; 3=4800; 4=9600; 5=	19200)	ьЯIJд	Readable/Writable	oFF
1.2 INF	PUT RE	GIST	RS				
Input F	Register resses	Dat	Data Content		rameter	Read/Write Permission	
Decimal	Hex	Тур			Name		
0000d	0x0000	wo	0			Only Readable	
00001	0x0001	wo	Measured voltage value. (While the measured value of 3-digit decimal point is read as. This value is "0" in other cases.)			Only Readable	
1.3 DIS	CRET						
Discrete Input Addresses Data Data Content P						Read/Write Permission	
Decimal	Hex	Тур			Name		
00d	0x00	Bit	Relay output state (0=OFF; 1=ON)			Only Readable	
1.4 CO	ILS						
Coil Ad	Coil Addresses		Data Content		arameter Name	Read/Write	Status
Decimal	Hex	Тур				Permission	Value
00d	0x00	Bi	Alarm output state $(0=n\sigma; 1=nc)$	1	Pout	Readable/Writable	по



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