

Read this document carefully before using this device. The guarantee will be expired by device demages 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 EID7422 DIFFERENTIAL INDICATOR

Thank you for choosing ENDA EID7422 Differential Indicator Devices.

- >72x72mm sized.
- ▶ 4 Digits, Dual Display.
- Display scale can be adjusted between -1999 and 4000.
- Decimal point can be placed between 1st. and 3rd. digits (or OFF).
- Adjustable 2 Setpoint value can be assigned.
- 2 selectable output controls.

Order Code : EID7422 -

1- Supply Voltage 230.....230V AC SM......7-24V AC 9-30V DC

- Control option below and above set value.
- Measuring ranges can be set for sensors with analogue output.
- Internal isolated supply output for the sensor.
- 0 ~ 20mA / 0 ~ 10V Analogue input for sensors with analogue output.
- CE Marked according to European standards.





ENVIRONMENTAL CONDITIONS

Ambient/Storage Temperature	0 +50°C/-25 +70°C (with no icing).				
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.					

ELEKTRİKSEL ÖZELLİKLER		
Supply	30V AC +%10 -%20 , 50/60Hz or 9-30V DC /7-24V AC ±%10 SMPS (Specify at Order).	
Power Consumption	Max. 5.4VA	
Wiring	2.5mm ² screw-terminal connections.	
Input-1 Range	0 ~ 20mA /0 ~ 10V can be selected for analogue output sensors.	
Input-2 Range	0 ~ 20mA /0 ~ 10V can be selected for analogue output sensors.	
EMC	EN 61326-1: 2013	
Safety Requirements	EN 61010-1: 2010 (Pollution degree 2, Overvoltage category II, Measurement category I)	

Analogue Input Type	Measurement Range		Measurement Accuracy	Input Impedance
	Min.	Max.		
0-1V DC Voltage 0-10V DC Voltage 0-20mA DC Current 4-20mA DC Current	0V 0V 0mA 0mA	1.1V 12V 25mA 25mA	±%0,5 (at full scale) ±%0,5 (at full scale) ±%0,5 (at full scale) ±%0,5 (at full scale)	Approx. 100kΩ Approx. 100kΩ Approx. 10Ω Approx. 10Ω

While current measuring mode, input impedance becomes 10Ω. Therefore, in the current mode, the device must not be connected to any voltage input. Otherwise, the device is broken. While the device is running in the voltage measurement mode and if required to change to current measurement mode, then firstly the voltage inputs must be removed and after that, the input type must be changed to one of the current measurement modes.

OUTPUTS	
15VDC Output	50mA 15VDC Output for Sensor Supply.
ife Expectancy for Relay Mechanical 30.000.000 operation; 100.000 operation at 250V AC, 10A resistive load.	
HOUSING	
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Housing Type	Suitable for flush-panel mounting according to DIN 43 700.	
Dimentions	W72xH72xD97mm	
Weight	Approx. 350g (after packaging)	
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.		





DIMENSIONS



FRONT PANEL EID7422 In "Running Mode", indicates the calculated difference value. In "Programming Mode", indicates the parameter name. Output Relay 1 OUT1 OUT2 In "Running Mode", indicates the adjusted parameter value. **Output Relay 2** In "Programming Mode", indicates the parameter value or unit. In "Running Mode", switches off the control outputs. In "Programming Mode", used for decreases or changes the parameter. In "Programming Mode", used for increases or changes the parameter. In "Running Mode", changes the SET2 set value. In "Running Mode", changes the SET1 set value. In "Programming Mode", indicates the parameter value. "Running Mode" refers to home/main display. "Programming Mode" refers to the display that programming operations are performed.











PARAMETER LIST							
CONFIGURATION PARAMETERS			MAX.	UNIT	DEFAULT		
d.PnE	Decimal point selection.	0	0.000		0		
L.dSP	Bottom display selection (aFF : Off, aPI : 1st Input Value , aPZ : 2ndInput Value , $5EEI$: SET2 Value)	oFF	5822		oFF		
OUTPUT 1	OUTPUT 1 CONTROL PARAMETERS						
l inP	Analogue input type for Input 1. (<i>D</i> - 2 <i>D</i> :0~20mA, <i>Y</i> - 2 <i>D</i> : 4~20mA, <i>D</i> - <i>ID</i> :0~10V, <i>I</i> - 5:1~5V)	0-20	1-5	mA / V	0-20		
I.uPL	Upper limit value for Input 1.	IL oL	9999		2500		
ILOL	Lower limit value for Input 1.	-999	I.uPL		0		
I.HYS	Hysteresis set value for Output 1.	1	200		20		
loFF	Offset value for Output 1.	-200	200		0		
lent	Control selection for Output 1 ($L o$:Output is active if the difference value is less than or equal to SET1., H <i>i</i> :Output is active if the difference value is greater than or equal to SET1.)	Lo	Н,		H,		
l.Pon	Required delay time in order to set Output 1 to active state after power-up.	00:00	99:00	min:sec	1:00		
l.Eon	Output relay-on delay time for Output 1.	00:00	99:00	min:sec	1:00		
lt of	Output relay-off delay time for Output 1.	00:00	99:00	min:sec	1:00		
OUTPUT 2	CONTROL PARAMETERS						
2. inP	Analogue input type for Input 2. (0-20:0~20mA, 4-20: 4~20mA, 0-10:0~10V, 1-5:1~5V)	0-20	1-5	mA / V	0-20		
2.uPL	Upper limit value for Input 2.	2.LoL	9999		2500		
2.L o L	Lower limit value for Input 2.	-999	2.uPL		0		
2.895	Hysteresis set value for Output 2.	1	200		20		
2.0FF	Offset value for Output 2.	-200	200		0		
2.c n t	Control selection for Output 2 ($L \sigma$:Output is active if the difference value is less than or equal to SET2., H :Output is active if the difference value is greater than or equal to SET2.)	Lo	Н,		Н,		
2.Pon	Required delay time in order to set Output 2 to active state after power-up.	00:00	99:00	min:sec	1:00		
2.200	Output relay-on delay time for Output 2.	00:00	99:00	min:sec	1:00		
2.5 oF	Output relay-off delay time for Output 2.	00:00	99:00	min:sec	1:00		

NOTE :

- If the measured difference value is negative, the device may shift, turn OFF or ON the decimal places when the scale is not sufficient. - If the decimal place is changed after the parameters have been set, the parameters must be checked again.



