



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 EI141 PROGRAMMABLE INDICATOR

Thank you for choosing ENDA EI141 INDICATOR.

- * 35x77mm sized.
- * 4 digits display.
- * Easy to use by front panel keypad.
- * Display scale can be adjusted between -1999 and 4000.
- * Decimal point can be adjusted between 1. ile 3. digits.
- * Measurement unit can be displayed.
- * Selectable four different standard input types (0-20mA, 4-20mA, 0-1V, 0-10V)
- * User can calibrate the device according to his/her own specified input type.
- * Sampling time can be adjusted in four steps.
- * Maximum and minimum measurement values are registered.
- * The maximum or the minimum values can be hold on the display.
- * Current and voltage calibration can be made..
- * Parameter access protection on 3 levels.
- * Easy connection by removable screw terminal.



**RoHS
Compliant**

Order Code : EI141-

1

1 - Supply Voltage

230VAC...230V AC
24VAC.....24V AC
SM.....9-30V DC / 7-24V AC

TECHNICAL SPECIFICATIONS

ENVIRONMENTAL CONDITIONS	
Ambient/storage temperature	0 ... +50°C/-25 ... +70°C (with no icing)
Max. relative humidity	80% up to 31°C decreasing linearly 50% at 40°C.
Rated pollution degree	According to EN 60529 Front panel : IP65 Rare panel : IP20
Height	Max. 2000m



Do not use the device in locations subject to corrosive and flammable gases.

ELECTRICAL CHARACTERISTICS	
Supply	230VAC +10%/-20%, 50/60Hz, 24VAC±10%,50/60Hz or 24Vac/dc (9-30Vdc or 7-24Vac)
Power consumption	Max. 7VA
Wiring	2.5mm ² screw-terminal connections
Date retention	EEPROM (Min. 10 years)
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, measurement category I) EI141 must not be used in location where measurement category is II, III or IV.

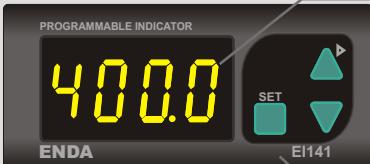
Input type	Measurement range	Measurement accuracy	Input impedance
	Min.	Max.	
0-1V DC voltage	0V	1.1V	±0,5% (of full scale)
0-10V DC voltage	0V	14V	±0,5% (of full scale)
0-20mA DC current	0mA	25mA	±0,5% (of full scale)
4-20mA DC current	0mA	25mA	±0,5% (of full scale)

In the current measurement mode input impedance is 5. Therefore, in the current measurement mode, any voltage input should not be connected to the input terminals. Otherwise, the device will be broken down. To change the input type from voltage to a current measurement mode while the device is operating, first, leave out the voltage inputs. Then, change input type to one of the current measurement modes.

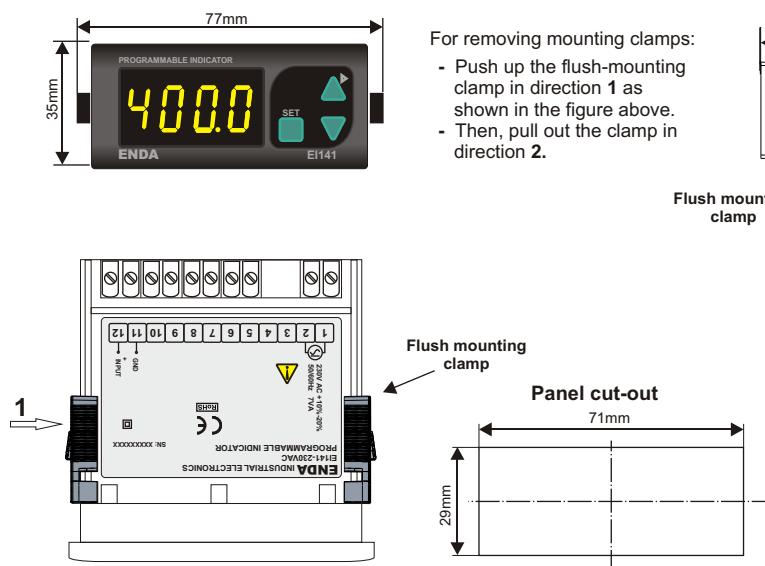
HOUSING	
Housing type	Suitable for flush-panel mounting according to DIN 43 700.
Dimensions	W77xH35xD71mm
Weight	Approx. 250g (after packing)
Enclosure material	Self extinguishing plastics

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

TERMS

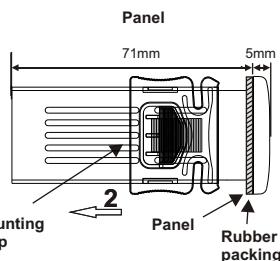
	<p>1) Measurement value, measurement unit, the minimum or the maximum measured values are displayed in the run mode. Parameter name, parameter value or a user defined unit is displayed in the programming mode.</p> <p>2) Increment or parameter selection key in the programming mode. Used for displaying measurement unit or the max. measured value in the run mode.</p> <p>3) Decrement or parameter selection key in the programming mode. Used for making the minimum and the maximum measured values equal in the run mode.</p> <p>4) Used for selecting run and programming modes, adjusting parameters, displaying measurement unit or making the minimum and the maximum measured values equal.</p>
(1) Digital display	4 digits 7 segment yellow LED display
Character height	9.1mm
(2),(3),(4),(5) Keypad	Micro switch

DIMENSIONS



For removing mounting clamps:

- Push up the flush-mounting clamp in direction 1 as shown in the figure above.
- Then, pull out the clamp in direction 2.

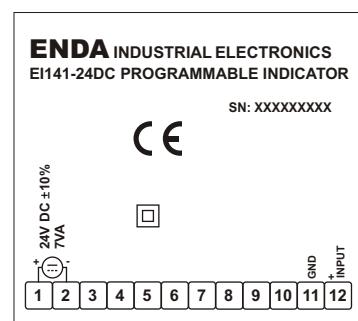
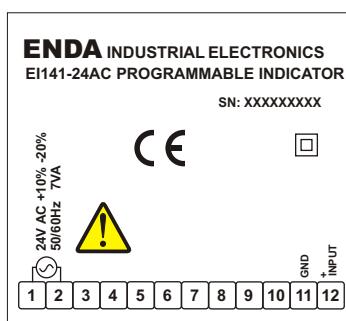
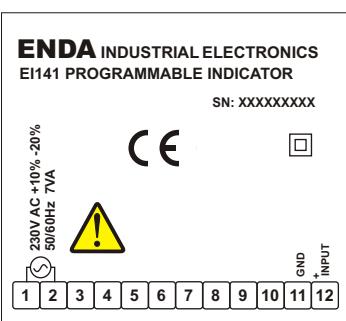


Note : 1) Panel thickness should be maximum 7 mm.
2) If there is no 60mm free space at the back side of the device, it would be difficult to remove it from the panel.

CONNECTION DIAGRAM



ENDA EI141 is intended for installation in control panels. Make sure that the device is used only for intended purpose. The shielding must be grounded on the instrument side. 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. All input and output lines that are not connected to the supply network must be laid out as shielded and twisted cables. These cables should not be close to the power cables or components. The installation and electrical connections must be carried on by a qualified staff and must be according to the relevant locally applicable regulations.



NOTE :

SUPPLY :



Holding screw
0.4-0.5Nm

Equipment is protected throughout by DOUBLE INSULATION.

Note : 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.

