



Please read this document carefully before using this product. The guarantee will be invalidated if the device is damaged by not following instructions detailed in the manual. The company shall not be responsible for any damage or losses however caused, which may be experienced as a result of the installation or use of this product.

ENDA EI141 PROGRAMMABLE INDICATOR

Thank you for choosing ENDA EI141 Programmable 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. and 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 specified input type.
- ▶ Sampling time can be adjusted in four steps.
- ▶ Stores maximum and minimum measurement values.
- ▶ The maximum or the minimum values can be hold on the display.
- ▶ Current and voltage calibration can be performed.
- ▶ Parameter access protection on 3 levels.
- ▶ Easy connection by removable screw terminal.
- ▶ CE marked according to European Norms.



Order Code : EI141 -

- 1 - Supply Voltage
- 230VAC...230V AC
 - 24VAC.....24V AC
 - 12VAC.....12V AC
 - SM.....9-30V DC /7-24V AC

RoHS
Compliant



TECHNICAL SPECIFICATIONS

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

| ELECTRICAL CHARACTERISTICS | |
|----------------------------|--|
| Supply | 230V AC +10% -20% or 12/24V AC ±10%, 50/60Hz or optional 9-30V DC / 7-24V AC ±10% SMPS. |
| Power Consumption | Max. 7VA |
| Wiring | 2.5mm ² screw-terminal connections |
| Date Retention | EEPROM (Min. 10 years) |
| EMC | EN 61326-1: 2013 |
| Safety Requirements | EN 61010-1: 2010 (Pollution degree 2, overvoltage category II, measurement category I) EI141 Can not be used if measurement category II, III or IV is required. |

| Input Type | Measurement Range | | Measurement Accuracy | Input Impedance |
|-------------------|-------------------|------|-----------------------|--|
| | Min. | Max. | | |
| 0-1V DC voltage | 0V | 1.1V | ±0,5% (of full scale) | Approx. 11kΩ (terminal voltage limits: min. = -2V, max. = 30V) |
| 0-10V DC voltage | 0V | 14V | ±0,5% (of full scale) | Approx. 11kΩ (terminal voltage limits: min. = -2V, max. = 30V) |
| 0-20mA DC current | 0mA | 25mA | ±0,5% (of full scale) | Approx. 50 (applicable terminal voltage is max. 50mA.) |
| 4-20mA DC current | 0mA | 25mA | ±0,5% (of full scale) | Approx. 50 (applicable terminal voltage is max. 50mA.) |



While the current measuring mode, input impedance becomes 5 . Therefore, in current mode, the device must not be connected 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, input type must be changed 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 |



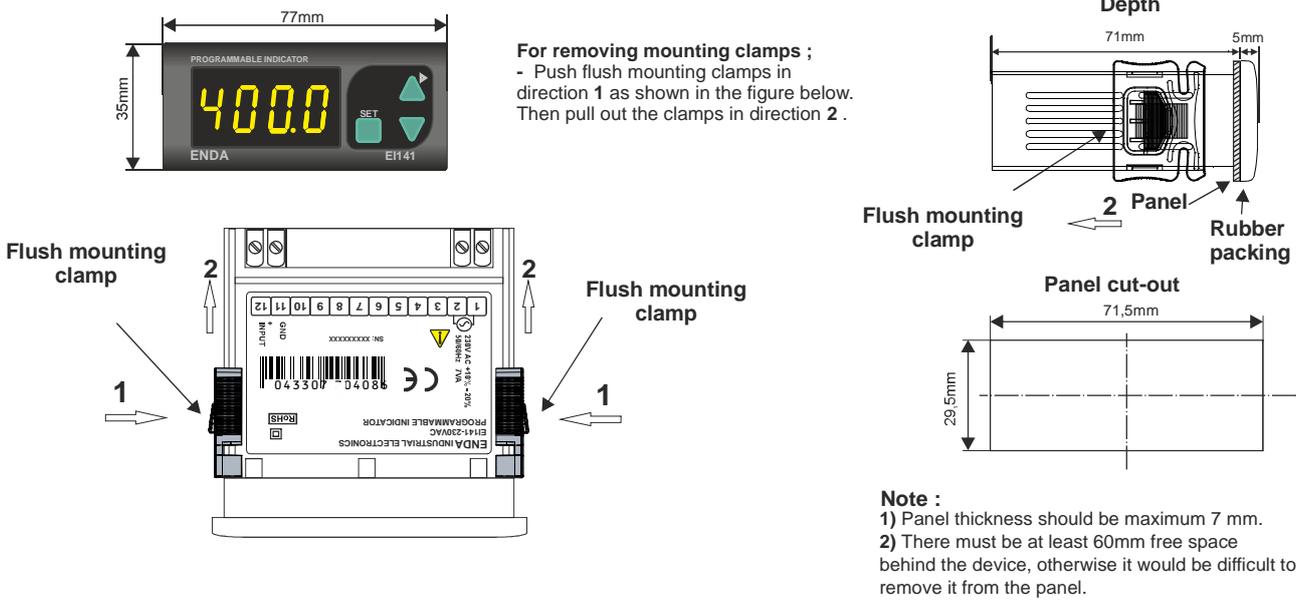
While cleaning the device, solvents (thinner, benzene, acid etc.) or corrosive materials must not be used.

Up to date : 100502019, modification reserved and can be change any time previous notice !

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 | 12.5mm | |
| (2),(3),(4),(5) Keypad | Micro switch | |

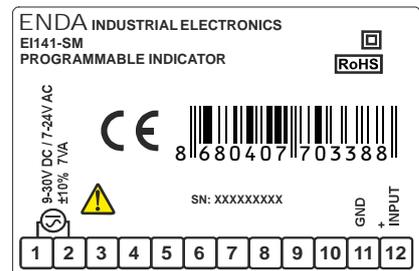
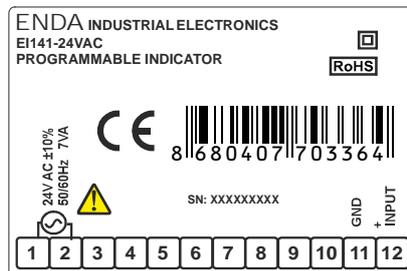
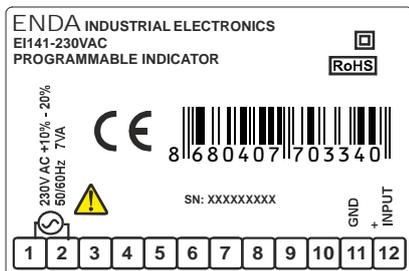
DIMENSIONS



CONNECTION DIAGRAM

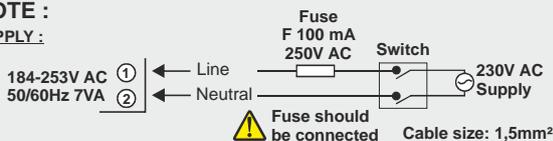


ENDA EI141 is intended for installation in control panels. Make sure that the device is used only for intended purpose. The shielding must be grounded on the instrument side. During an installation, all of the cables that are connected to the device must be free of electrical power. The device must be protected against inadmissible humidity, vibrations, severe soiling. 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 out by a qualified staff and must be according to the relevant locally applicable regulations.



NOTE :

SUPPLY :



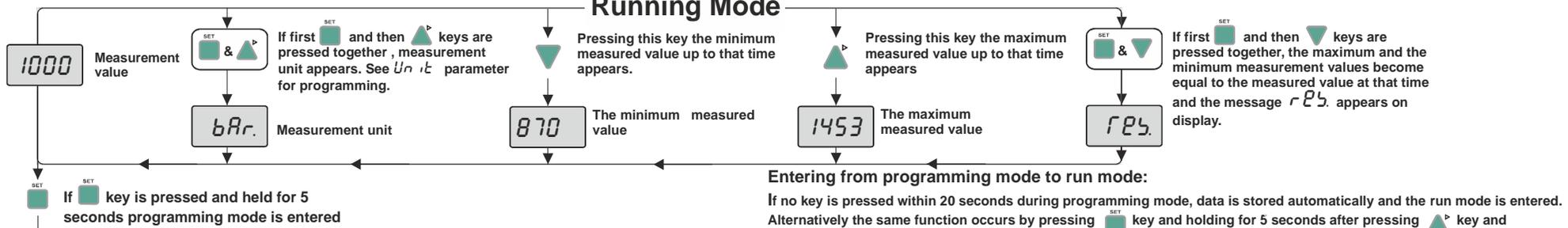
Holding screw
0.4-0.5Nm

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.

Running Mode



Programming Mode

