



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 EDP 141 DIGITAL POTENTIOMETER

Thank you for choosing ENDA EDP 141 potentiometer.



- * 34x77mm sized.
- * 4 digits display.
- * Easy to use by front panel keypad.
- * Display scale can be adjusted between -1999 and 8000.
- * Decimal point can be adjusted between 1. and 3. digits.
- * 0-10V output with adjustable minimum and maximum values.
- * 'Soft on' and 'soft off' properties can be selected.
- * Parameter access protection on 3 levels.
- * Having CE mark according to European Norms.



Supply Voltage	Order Code
230V AC +10% -20%	EDP141
24V AC ± 10%	EDP141-24AC
9-30V DC SMPS module	EDP141-24DC

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 : IP60 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%, 50/60Hz or 24V AC ±10% 50/60Hz or 9-30V DC SMPS module
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)

OUTPUT	
0-10V output	Maximum 10mA, digitally adjusted potentiometer output. Resolution : 1/10000 V Fluctuation : Maximum 30mV Rise time from 0 to 10V is maximum 300ms

HOUSING	
Housing type	Suitable for flush-panel mounting according to DIN 43 700.
Dimensions	W77xH34xD70mm
Weight	Approx. 350g (after packing)
Enclosure material	Self extinguishing plastics

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

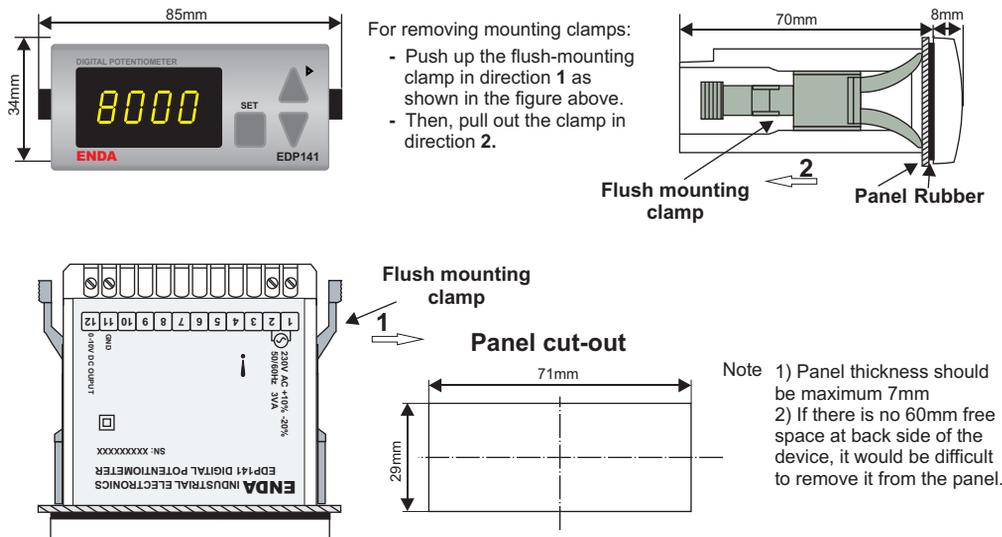
TERMS



- 1) Adjusted potentiometer value is seen in run mode
Parameter name, value or its unit in programming mode.
- 2) Increment key during run mode.
Increment or parameter selection key during programming mode.
- 3) Decrement key during run mode.
Decrement or parameter selection key during programming mode.
- 4) Used for selecting run or programming modes and for adjusting parameters.

(1) Digital display	4 digits 7 segment yellow LED display
Character height	9.1mm
(2),(3),(4) Keypad	Micro switch

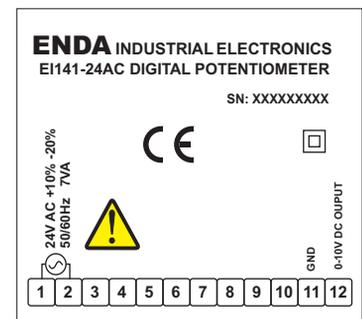
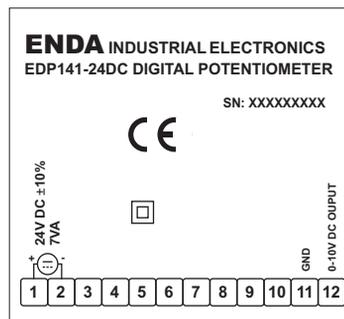
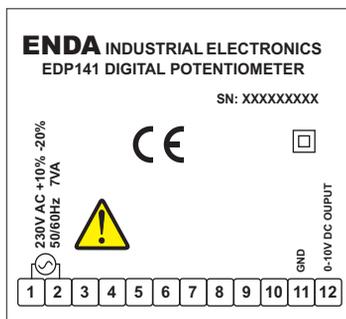
DIMENSIONS



CONNECTION DIAGRAM



ENDA EDP 141 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 :

184-253V AC
50/60Hz 3VA

①

②

← Line

← Neutral

Fuse
F 100 mA 250V AC

Anahtar

230V AC
Besleme

⚠ Fuse should be connected

Cable size: 1,5mm²



Holding screw
0.4-0.5Nm

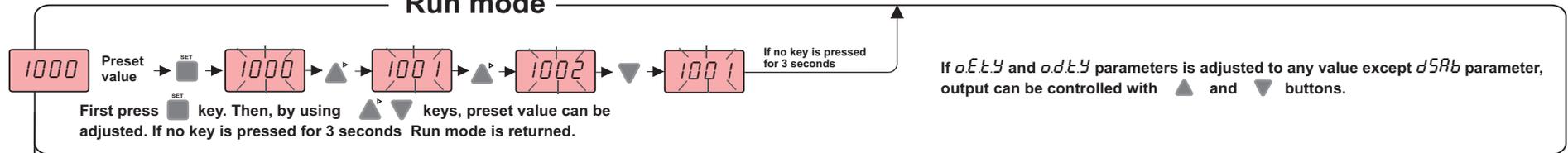


Equipment is protected throughout
by DOUBLE INSULATION.

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.

Run mode

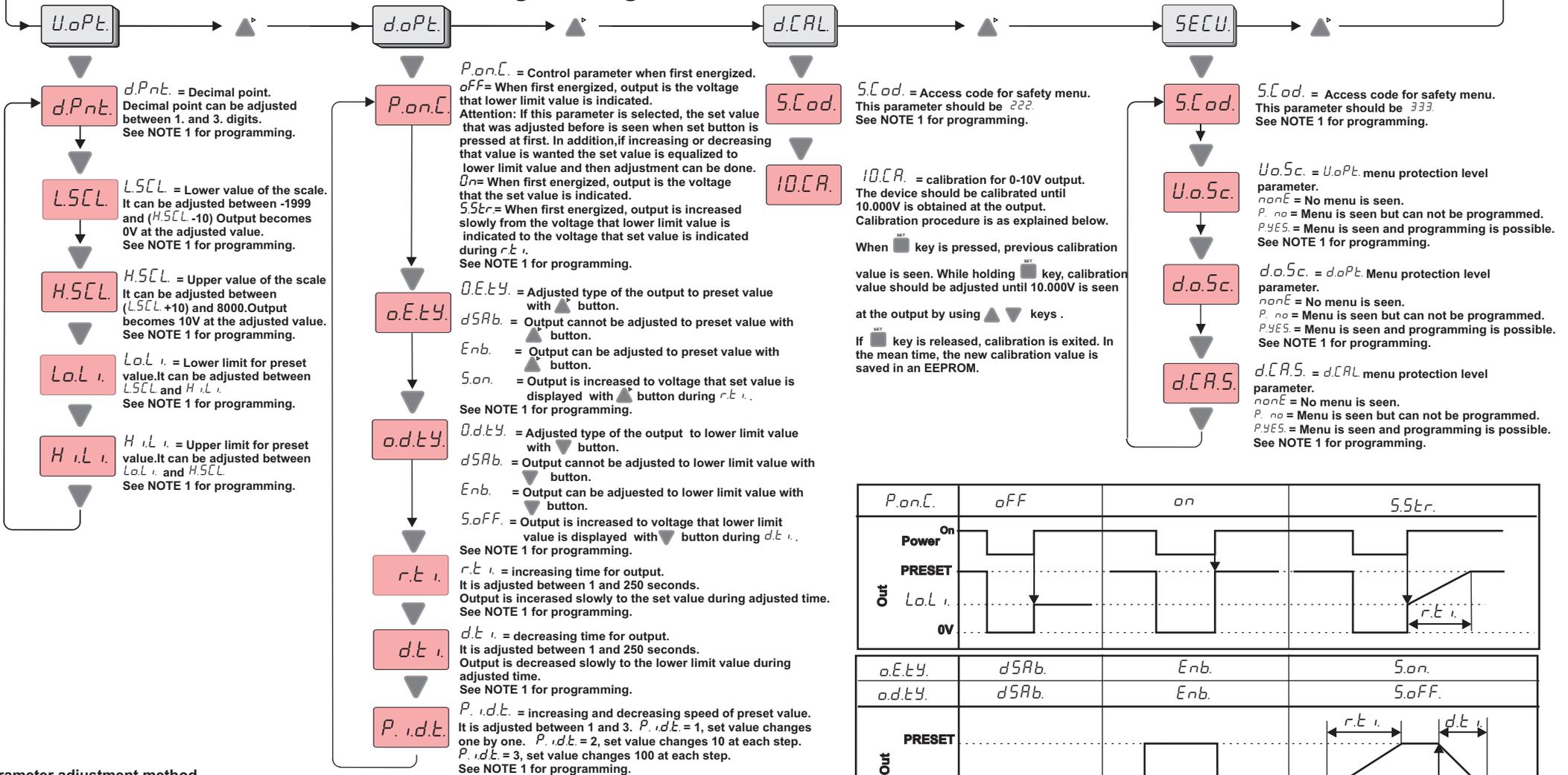


If **SET** key is pressed and held for 5 seconds programming mode is entered

Entering from programming mode to run mode:

If no key is pressed within 20 seconds during programming mode data is stored automatically and the run mode is entered. Alternatively the same function occurs by pressing **SET** key and holding for 5 seconds

Programming mode



Parameter adjustment method

NOTE 1

For adjusting a selected parameter first press and hold **SET** key. Then, by using **▲▼** keys, adjustment can be made.

If increment key **▲** is pressed and held 0.6 seconds, the value of the selected parameter changes rapidly. If waited enough, the value increases 100 at each step. After 1 second following the release of the key, initial condition is returned. The same procedure is valid for the decrement key.

