

english

ELECTRICAL CHARACTERISTICS	
Supply	230V AC +%-10-%20 50/60Hz ; 10-30V DC / 8-24V AC SMPS
Power consumption	Max. 5VA
Wiring	2.5mm² screw-terminal connection.
Scale	0 ... 400°C
Sensitivity	1°C
Accuracy	For adjustment ±4%, for display ±0,5% (of full scale) or ±1 digit.
Display	3 digits, 7.6mm, 7 segment red LED
Data retention	EEPROM (at least 10 years)
EMC	EN 61326-1: 2013
Safety requirements	EN 61010-1: 2010 (Pollution degree 2, overvoltage category II)

CONTROL	
Control type	Single-setpoint control
Control algorithm	On-Off / time proportional (optional)
A/D converter	10 bits
Proportional band	2% (for time proportional control)
Control period	10 second (for time proportional control)
Hysteresis	4°C (for On-Off control)

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

Dimensions

Technical drawing showing the dimensions of the thermostat and its mounting adaptor.

Thermostat Dimensions:

- Height: 96mm
- Width: 99mm

Mounting Adaptor Dimensions:

- Depth: 14mm
- Width: 50mm
- Panel thickness: 57mm

Panel Cut-out Dimensions:

- Width: 105mm
- Height: 99mm
- Note: Panel thickness should be max. 10mm.



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.

Thank you for choosing **ENDA ATC9311**



Order Code : ATC9311 - - -

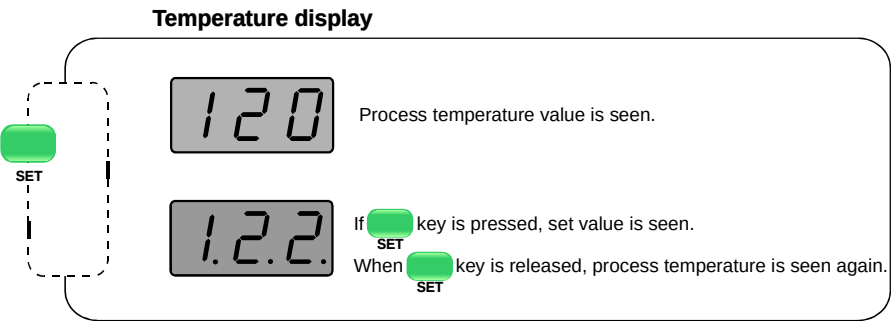
1 2 3

1- Supply Voltage 230230V AC LV 10-30V DC / 8-24V AC	2 - Sensor Type -FE400 FeCuNi Thermocouple "J" -K400 NiCr-Ni Thermocouple "K"	3 - Output -- (none) Relay output -SSR Solid State output
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- * 96 x 96mm sized.
- * Digital display for measured temperature and set value.
- * Selectable On-Off or time proportional control.
- * Fe-Const thermocouple or NiCr-Ni thermocouple input.
- * Output relay is de-energized in the case of sensor failure.
- * Easy setting procedure.
- * CE marked according to European Norms.

ATC9311 Programming Diagram

For displaying Set value



For selecting control form.

When the device is energized, selected control form is seen on the display.

If time proportional control was selected, **LP** is seen.

If On-Off control was selected, **on -** and **off** are seen.

If the device is energized while holding **SET** key, control form changes and the related message is seen on the display.

Error Messages

PFA If this message is seen, it means temperature sensor was not disconnected or over temperature condition was occurred. When this message is seen, the control output is de-energized.

Err If this message is seen, it means the device has a calibration error. In this case, the device should be sent to **Sisel A.Ş.** or to a nearest **ENDA** local representative for calibration and testing. When this message is seen, the control output is de-energized.

Applications

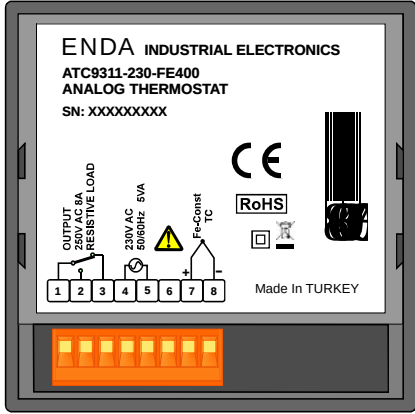
Plastic injection presses, automatic bread making ovens, nylon bag machines, shrink packing machines, furniture presses, industrial ovens, textile machines, ironing presses and other temperature control applications.

Connection diagram

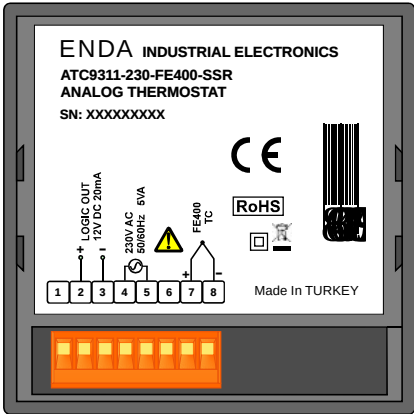


ENDA ATC9311 is intended for installation in control panels. Make sure that the device is used only for intended purpose. The electrical connections must be carried on by a qualified staff and must be according to the relevant locally applicable regulations. During an installation, all of the cables 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 shielding must be grounded on the instrument side.

Terminal connection



Terminal connection



Logic output is not isolated from the inner circuits of the device. Therefore, when using a grounding thermocouple, do not connect the logic output terminals to the ground.



Holding screw 0.4-0.5Nm



Equipment is protected throughout by DOUBLE INSULATION.

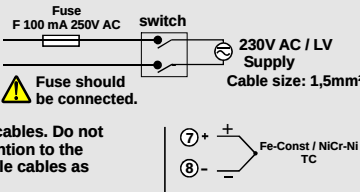
NOTE :

SUPPLY :

184-253V AC
or
10-30V DC /
8-24V AC
50/60Hz 5VA

SENSOR INPUT:

Use suitable compensation cables. Do not use jointed cables. Pay attention to the polarities of the thermocouple cables as shown in the figure right.



- 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.