Technical Specifications

ENVIRONMENTAL CONDITIONS				
Ambient/storage temperature	0 +50°C/-25 70°C			
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 gasses.				
Supply voltage	230V AC +%10 -%20, 50/60Hz or 24V AC ±%10, 50/60Hz or optinal 9-30V DC SMPS module.			
Power consumption	Max. 6VA			
Wiring	2.5mm²'lik screw-terminal connections.			
Scale	0 9.99 or 0 99.9 or 0 999 minutes (selectable)			
Sensitivity	+1 digit			

Accuracy	\pm %4 for analog scale, \pm %0,5 for timer display (of full scale)	
Display	3 digits, 7.62mm, 7 segment red LED	
Data Retention	EEPROM (Min. 10 years)	
EMC	EN 61326-1: 1997, A1: 1998, A2: 2001 (Performance criterion B is satisfied for EMC tests.	
Safety requirements	EN 61010-1: 2001 (Pollution degree 2, overvoltage category II)	

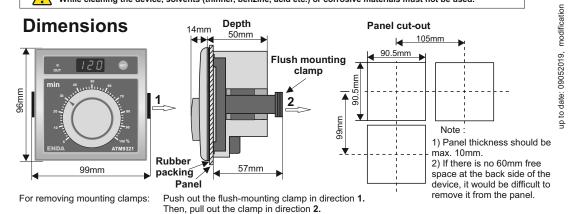
INPUTS		
Start input	Contact input (during min. 5ms.)	
Reset input	Contact input	

OUTPUTS		
Control output	Relay : 250V AC, 2A (for resistive load), NO+NC or 12V DC 20mA logic output	
Life expectancy for relay	Mechanical 30.000.000 operation; electrical 300.000 operation.	

CONTROL	
Output function	Mode A : Control output is energized after setting time is over. Mode B : Control output is energized during setting time.
A/D converter	10 bits

HOUSING Housing type Suitable for flush-panel mounting. Dimensions W96xH96xD50mm Approx. 250g (after packing the device) Weight Self extinguishing plastics Enclosure material

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





be change any time previous notice

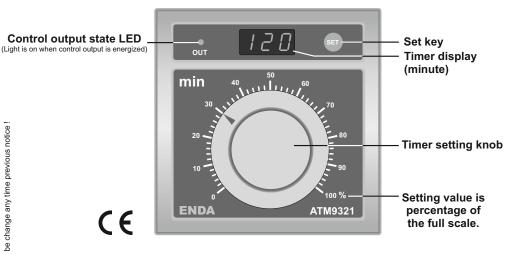
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reserved and

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 ATM9321 ANALOG TIMER with DIGITAL DISPLAY

Thank you for choosing ENDA ATM9321 analog timer.



- * 96 x 96mm sized.
- * Digital display for timer value.
- * Selectable scale with 0 ... 9.99 or 0 ... 99.9 or 0 ... 999 minutes
- * Selectable mode A (on-delay) and mode B (off-delay) output functions.
- * Start by start input.
- * Reset by reset input.
- * Easy setting procedure.
- * Having CE mark according to European Norms.

Application Areas

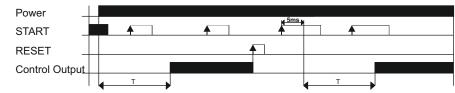
Plastic injection presses, automatic bread making ovens, nylon bag machines, shrink packing machines, furniture presses, industrial ovens, textile machines, ironing presses and other time control applications.

Output Functions

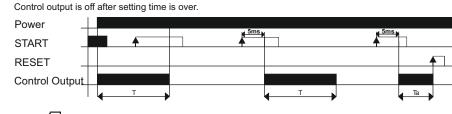
T: Setting time (minute), Ta<T

MODE A

When START input is triggered, timer starts running. Control output is energized after setting time is over.



MODE B

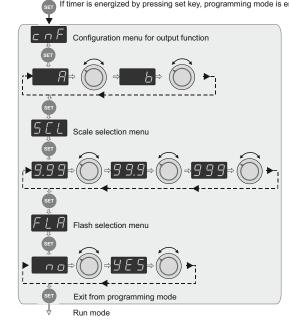


When START input is triggered, timer starts running and control output is energized.

NOTE: ______ START is triggered by rising edge and it is activated after 5ms.

Programming Diagram

If timer is energized by pressing set key, programming mode is entered.



NOTE : While key is being turned left or right, the parameters related to that menu appear.

kev

To confirm the parameter, press

ERROR MESSAGE:

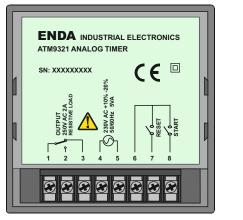


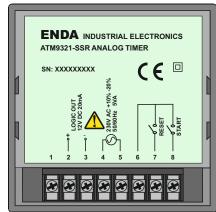
If this message is seen, it means the device has a calibration error. In this case, the device should be sent to Sisel A.Þ. or to a nearest ENDA local representative for calibration and testing. When this message is seen, the control output is de-eneraized.

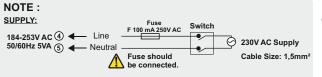
Connection Diagram



ENDA ATM9321 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









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

Supply Voltage	Control Output	Order Code
2201/ AC 10/ 40 0/ 20	Relay	ATM9321
230V AC +%10 -%20	Logic Output	ATM9321-SSR
24V AC ±%10	Relay	ATM9321-24
240 AC 1/010	Logic Output	ATM9321-24-SSR
9-30V DC SMPS	Relay	ATM9321-24DC
	Logic Output	ATM9321-24DC-SSR

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