english



Read this document carefully before using this device. The guarantee will be expired by device demages 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 ET2412 ON/OFF HEAT CONTROLLER

Thank you for choosing ENDA ET2412 ON/OFF Heat Controller.

- 77 x 35mm sized.
- Single NTC sensor input.
- Zero point input shift.
- Selectable heating or cooling control for C1 relay output.
- A1 Relay output for alarm control.
- Selectable independent, deviation and band alarm types.
 In the case of sensor failure, relay state can be set to
- In the case of sensor failure, relay state c ON or OFF.
- Upper and lower setpoint limits can be adjusted.
- Temperature unit can be selected as °C or °F.
- CE marked according to European Norms.



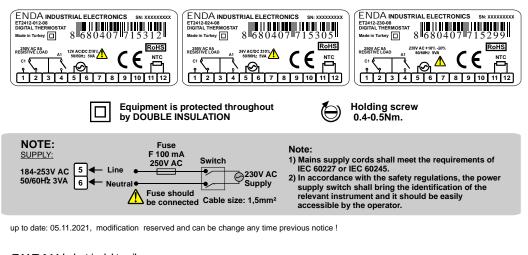
Order Code : ET2412 2	1 - Supply Voltage 230230V AC 110110V AC 02424V AC/DC 01212V AC/DC SM8-24VAC/10-30VDC	2 - Relay Current Selection 088A Relay Output
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CONNECTION DIAGRAM



ENDA ET2412 is intended for installation within 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.

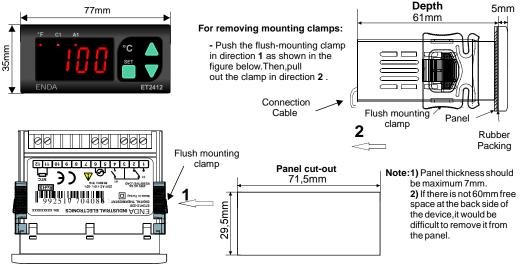


TECHNICAL SPECIFICATIONS

		INF	UI .	,			
Input Type		Scale R	ange	Accuracy			
NTC Sensor Resistance	EN 60751	-60.0150.0 °C	-76.0302.0°F	± 1% (for full scale)	± 1 Digit		
		ENVIRONMENT	AL CONDITIONS				
Ambient/Storage temperature	0 +50 / °C -25.	+70°C(without ici	ng)				
Relative Humidity	Max. humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C.						
Protection Class	According to EN	0529; Front panel:	IP65 Rear panel : IP2	0			
Height	Max. 2000m						
A Do not use the device in	n locations subject	to corrosive and fla	mmable gasses.				
<u></u>		ELECTRICAL CH	ARACTERISTICS)			
Supply			2/24V AC/DC ±%10				
Power Consumption	Max. 3VA						
Wiring	Power connector : 2.5mm ² screw-terminal, Signal connector : 1,5mm ² screw-terminal conenction.						
Line Resistance	Max. 100ohm						
Data Retention	EEPROM (Min. 10 years)						
EMC	EN 61326-1: 2013 (Performance criterion B is satisfied for EN 61000-4-3)						
Safety Requirements	EN 61010-1: 2010 (Pollution degree 2, overvoltage category II)						
Indicator	4 digits, 12.5mm	n, 7 segment red Ll	ED				
		OUT	PUT				
C1 Output	250V AC, 8A (resistive load), NO and NC control output.						
A1 Output	250V AC, 8A (resistive load), NO control output.						
Life Expectancy for Relay	30. Mio. Switching	for no-load operation	; 300.000 switching for 8	A resistive load at 250VAC.			
		CON	TROL)			
Control Type	Single-setpoint a	nd alarm control.					
Control Algorithm	On-Off Control.						
A/D Converter	12 bit resolution, 100ms sampling time.						
Hysteresis	Adjustable betwe	en 0.1 and 20.0°C/F					
		HOUS)			
Housing Type	Suitable for flush-panel mounting according to DIN 43 700.						
Dimensions	W77xH35xD61mm						
Weight	Approx. 215g (After packing)						
Enclosure Materials	Self extinguishin	g plastics					
Δ							

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

Dimensions



SURAN Industrieelektronik Dettinger Str. 9

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Programming Diagram

