

## ESM-3712-HCN

Digital ON / OFF Temperature Controller(ALARM+SET)

Installing parameters using Prokey

2 Output for compressor and alarm controls

Process Set value and Alarm Set value low limit and set value high limit boundaries

4 Digits Display

NTC Inputor PTC Input (Must be determined in order)

ON/OFF temperature control

Selectable heating or cooling function

Selection of operation with hysteresis

Adjustable temperature offset

Alarm parameters

Adjustable internal buzzer according to Sensor

prob defect and Alarm status

Remote access, data collecting and controlling

with Modbus RTU (Optional)



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Features	Descriptions
<b>Physical Features</b>	
<b>Dimensions</b>	76mm x 34,5mm x 71mm
<b>Protection Class</b>	NEMA 4X (IP65 at front, IP20 at rear)
<b>Installation</b>	Fixed Installation
<b>Storage Temperature</b>	-30°C to +80°C
<b>Storage / Operating Humidity</b>	90 % max. (None condensing)
<b>Electrical Features</b>	
<b>Supply Voltage and Power</b>	24Vdc/ac ( ±%15) 50/60Hz - 1.5VA 24 V ac (±%15) 50/60 Hz. 1.5 VA 115 Vac (±%15) 50/60 Hz. 1.5 VA 230 Vac (±%15) 50/60 Hz. 1.5 VA 100-240Vac 50/60Hz 10-30Vdc 1.5W
<b>Sensor Inputs</b>	NTC, PTC, TC, RTD NTC (10k @.25 °C) PTC(1000 @.25 °C) J, K (IEC584.1)(ITS90) PT-100, PT-1000 (IEC751)(ITS90)
<b>Optional Sensor Inputs</b>	

<b>Scale</b>	Fe-CuNi 0°C...800°C NiCr-Ni 0°C...999°C PT 100 -50°C...400°C / -19.9°C...99.9°C NTC -50°C...100°C / -50.0°C...100.0°C PTC -50°C...150°C / -50.0°C...150.0°C
<b>Accuracy</b>	± % 1 of full scale
<b>Output</b>	
<b>Relay Output</b>	16(8) A@250 Vac for Resistive load (Compressor output) (Electrical life : 100.000 switching at full load) for Resistive load 5 A@250 Vac (Alarm output)
<b>SSR Output</b>	
<b>Analogue Output</b>	
<b>Optional Outputs</b>	
<b>Control</b>	
<b>Control Form</b>	On/Off
<b>Reading Frequency</b>	3 readings per second
<b>Communication Protocols</b>	RS-485, Prokey Programming Module
<b>Approvals</b>	GOST-R, CE