

Single SET Digital On/Off
Temperature Controller



Temperature Controllers

ESM-3710-N



CE EAC

Installing parameters using Prokey

Password protection for programming section

Remote acces, data collecting and controlling
with Modbus RTU

Adjustable internal buzzer according to sensor
defect status

Specifications

4 Digits Display

NTC Input or PTC Input or

J type thermocouple Input or Ktype thermocouple Input or

2-Wire PT-100 Input or 2-Wire PT-1000 Input (Must be determined in order.)

Adjustable temperature offset

ON/OFF temperature control

Selectable heating or cooling function

Selection of operation with hysteresis

Adjustable temperature offset

Set value low limit and set value high limit boundaries

Operation selection of compressor operates continuously,

stops or operates periodically in case of sensor defect

Compressor protection delays

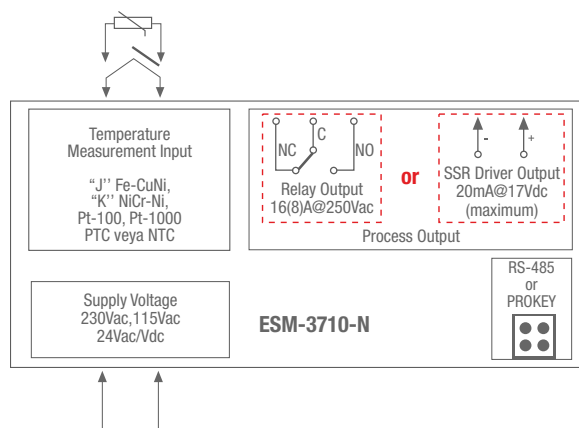
Technical Specification

Accuracy: $\pm 1\%$ of scale

Cold Junction Compensation: Automatically $\pm 0.1^\circ\text{C}/1^\circ\text{C}$

Sensor Break Protection: Upscale

Sampling Cycle: 3 samples per second



ESM-3710-N (76x34,5x71 mm)		V	
A Supply Voltage		PTC-M6L40.K1.5 (PTC Air Probe with 1.5 m silicon cable)	1
2 24Vac/dc (-%15;+%10) 50/60 Hz -1.5VA		PTCS-M6L30.K1.5.1/8" (PTC Liquid Probe with 1.5 m silicon cable)	2
3 24Vac ($\pm\%15$) 50/60 Hz -1.5VA		NTC-M5L20.K1.5 (NTC Probe, thermoplastic moulded with 1.5 m cable for cooling application)	3
4 115Vac ($\pm\%15$) 50/60 Hz -1.5VA		NTC-M6L50.K1.5 (Metal protective tubular, 1.5 m wired NTC probe)	4
5 230Vac ($\pm\%15$) 50/60 Hz -1.5VA			
8 10-30Vdc($\pm\%15$) 50/60 Hz			
BC Input		Process Output E	
05 J, Fe CuNi IEC584.1(ITS90)	12 PTC (-50....130°C)	Relay Output: (16(8)A @ 250Vac)	1
10 K, NiCr Ni IEC584.1(ITS90)	14 Pt 1000, (-50...400°C)	SSR Driver Output (Maximum 20mA @ 17Vdc)	2
11 Pt 100, (-50...400°C)	13 Pt 1000, (-19.9...99.9°C)	Relay Output (30(15)A@240Vac, 1 NO (Only for NTC input type devices.)	3
09 Pt 100, (-19.9...99.9°C)	18 NTC (-50...100°C)		