Single SET Digital On/Off
Temperature Controller

Temperature Controllers

ESM-3710-N



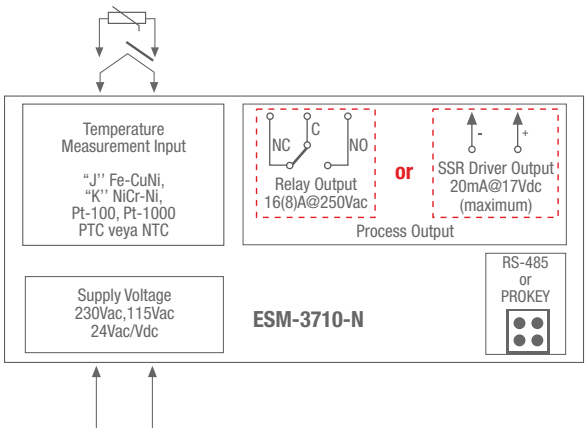
With Buzzer

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 ori 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 continously,
stops or operates periodically in case of sensor defect
Compressor protection delays



Technical Specification

Accuracy: ±1%of scale
Cold Junction Compensation: Automatically ± 0.1°C/1°C
Sensor Break Protection: Upscale
Sampling Cycle: 3 samples per second

INPUT X1 | OUTPUT X1 | ModBus RS-485 | 77x35

ESM-3710-N . A . BC . 0 . E / 00 . 00 / 1 . V . 0 . 0

ESM-3710-N (76x34,5x71 mm)

A Supply Voltage
2 24Vac/dc (-%15;+%10) 50/60 Hz -1.5VA
3 24Vac (±%15) 50/60 Hz -1.5VA
4 115Vac (±%15) 50/60 Hz -1.5VA
5 230Vac (±%15) 50/60 Hz -1.5VA
8 10-30Vdc(±%15) 50/60 Hz

BC Input
05 J, Fe CuNi IEC584.1(ITS90)
10 K, NiCr Ni IEC584.1(ITS90)
11 Pt 100, (-50...400°C)
09 Pt 100, (-19.9...99.9°C)
12 PTC (-50....130°C)
14 Pt 1000, (-50...400°C)
13 Pt 1000, (-19.9...99.9°C)
18 NTC (-50...100°C)

V
PTC-M6L40.K1.5 (PTC Air Probe with 1.5 m silicon cable) 1
PTCS-M6L30.K1.5.1/8" (PTC Liquid Probe with 1.5 m silicon cable) 2
NTC-M5L20.K1.5 (NTC Probe, thermoplastic moulded with 1.5 m cable for cooling application) 3
NTC-M6L50.K1.5 (Metal protective tubular, 1.5 m wired NTC probe) 4

Process Output E
Relay Output: (16(8)A @ 250Vac) 1
SSR Driver Output (Maximum 20mA @ 17Vdc) 2
Relay Output (30(15)A@240Vac,1 NO (Only for NTC input type devices.) 3