EMKO

Dual SET Heating and Cooling Controller

Temperature Controllers

ESM-3712-HCN

With Buzzer

CE EAC

▶ Installing parameters using Prokey

▶ 2 Output for compressor and alarm controls

▶ Remote access, data collecting and controlling with Modbus RTU

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

Specifications

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

Operation selection of compressor operates continously,

stops or operates periodically in case of sensor defect

Compressor protection delays

Password protection for programming section

Adjustable Alarm Set Value from front panel

Adjustable internal buzzer according to Sensor prob defect and Alarm status

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

Temperature Measurement Input

"J" Fe-CuNi,
"K" NiCr-Ni,
Pt-100, Pt-1000
PTC veya NTC

Relay Output 16(8)A@250Vac

Process Output

ESM-3712-HCN

Alarm Output
Relay Output 5A@250Vac

Supply Voltage
24Vac/Vdc
100...240Vac

RS-485 or PROKEY

ModBus RS-485 | INPUT X1 | OUTPUT X2 | O+ | O- | (((♩))) | 77x35

Ordering information

ESM-3712-HCN . A . BC . 0 . 1 / 1 . 00 / 1 . V . 0 . 0

ESM-3712-HCN
(76x34,5x71 mm)

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

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

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

Output Modules FG
- Alarm Output: Relay (5A @ 250Vac,1 NO)   1

Process Output E
- Relay (16(8)A @ 250Vac, 1 NO)   1