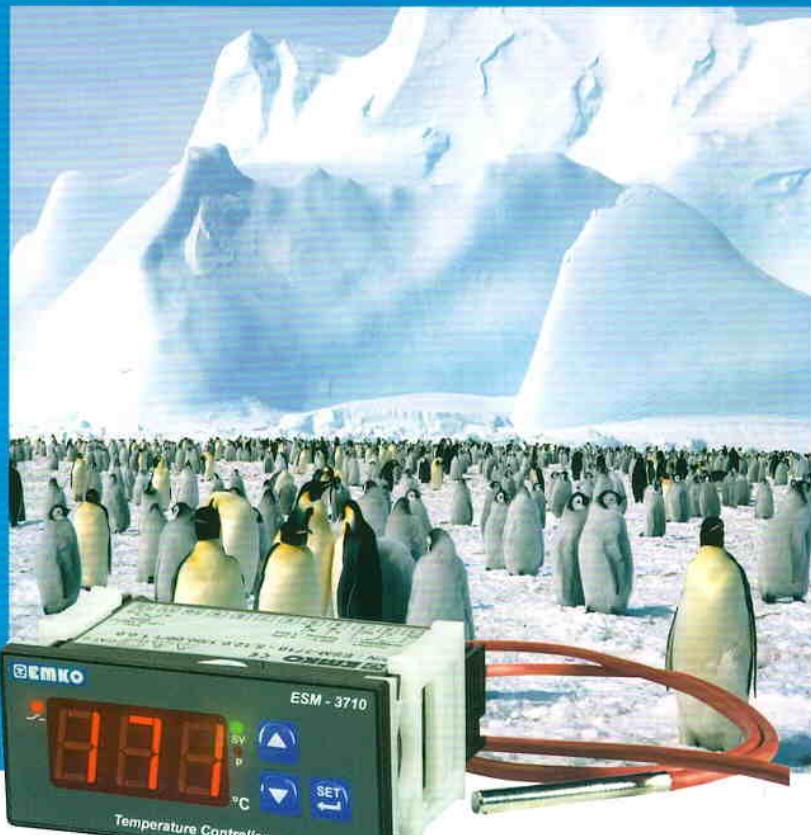


Heating and Cooling Controllers



ESM-3710

Single SET, ON/OFF Controller

ESM-3711-H

Single SET ON/OFF,
Heating + Timer Controller, with Audible alarm

ESM-7311-H

Single SET ON/OFF,
Heating + Timer Controller, with Audible alarm

ESM-3712-H

Dual SET (SET+Alarm) ON/OFF,
Heating + Timer Controller, with Audible alarm

ESM-3711-C

Single SET ON/OFF,
Cooling + Defrost Time Controller, with Audible alarm

ESM-3712-C

Cooling and Defrost Controller, with Audible alarm

ESM-3711-CL

Single SET ON/OFF,
Cooling + Defrost Time Controller, with Audible alarm
Min/Max. data logging

ESM-3712-HC

Dual SET (SET+Alarm) ON/OFF,
Heating and Cooling Controller,

Heating / Cooling applications

Easy to use

3 digits display

PTC, NTC, Pt-100, Pt-1000 thermoresistance input types

Fe-Const (J), NiCr-Ni (K) thermocouple input types

ON / OFF temperature control

Adjustable temperature offset

SET value limit and SET value high limit boundaries

Compressor protection delays

Defrost control

Audible alarm by internal buzzer

Password protection for programming section

Min / Max Data logging

Heating Control



ESM-3710

Single SET, ON/OFF Controller

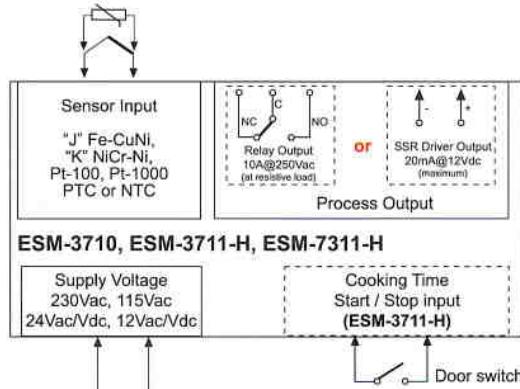
- ON/OFF temperature control
- Heating and Cooling applications
- Relay or SSR driver output
- Thermoresistance or Thermocouple input
- Compressor protection delay
- Password protection for programming section



ESM-3711-H

Single SET ON/OFF, Heating + Timer Controller, with Audible alarm

- ON/OFF temperature control
- Adjustable cooking time
- Relay or SSR driver output
- Audible alarm for alarm situation
- Audible alarm at the end of the cooking time
- Button protection
- Adjustable temperature offset
- Digital input for Cooking time Start / Stop



ESM-7311-H

Application Fields:

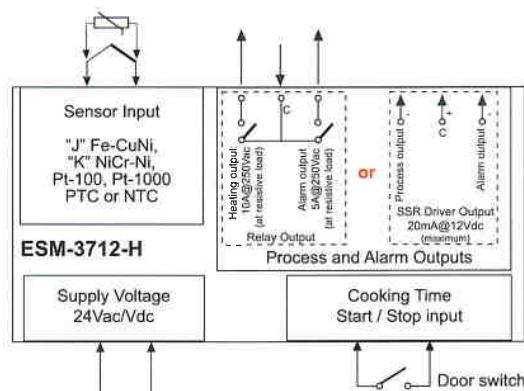
- Industrial kitchen applications
 - Bakery applications
 - Industrial oven control
 - Chemical sample testers
- Laboratory test equipments
 - Fermentation cabinets
 - Heating automation
- Quality control applications
 - Jeweller furnace etc.,



ESM-3712-H

Dual SET (SET+Alarm) ON/OFF, Heating + Timer Controller, Audible alarm

- Relay or SSR Driver output for Cooking and Alarm
- Adjustable SET value for Cooking and Alarm
- 24Vdc/Vac supply voltage
- Thermoresistance or Thermocouple input types
- Adjustable Cooking time from front panel
- Digital input for Cooking time Start / Stop
- Functional alarm parameters
- Adjustable temperature offset
- Audible alarm for alarm situations
- Button protection
- Password protection for programming section



Cooling Control



ESM-3711-CL

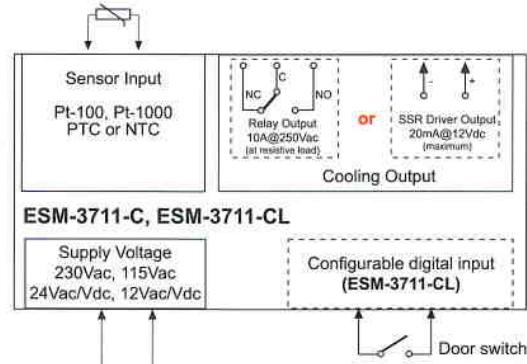


ESM-3711-C

Single SET ON/OFF,
Cooling + Defrost Time Controller, with Audible alarm
Min/Max. data logging

If your product is exposed to critical temperature level, you can learn it by one button on front panel,
Maximum and minimum temperature values are recorded .

Application Fields:
Refrigerators, Freezing chambers, Cold chain applications
Medicine stores, Blood cabinets, etc.,



ESM-3712-C

Cooling + Defrost Controller with buzzer

- 3 output for Compressor, defrost and fan control
- 2 sensor inputs for Cabinet and evaporator
- Programmable digital input
- Separately adjustable 2 offset values for Cabinet and evaporator sensor
- SET value boundaries
- Fan can be operated depending on compressor and defrost
- Adjustable defrost time from front panel
- Functional alarm parameters
- Operation selection of compressor operate continuously, stops or operates periodically in case of cabinet probe defect
- Adjustable internal buzzer according to the defrost, cabinet probe defect and status
- Button protection
- Password protection for programming mode



ESM-3712-HC

Heating & Cooling Controller

General Specification of Heating and Cooling Controllers

Measurement Range	: It is in ordering information
Accuracy	: +/-1% of scale
Cold Junction Compensation	: Automatically +/- 0.1°C / 1°C
Sensor Break Protection	: Upscale
Sampling Cycle	: 3 samples per second
Control Output	: ON/OFF
ON/OFF Hysteresis	: It can be configured by the user
Operation Temperature	: 0...50°C
Humidity	: %0-90RH (none condensing)
Protection Class	: IP65 at front, IP20 at rear
Dimension	: 77x35mm, Depth: 60mm., 35x77mm, Depth: 60mm. (ESM-7311-H)

