

Electronic thermostat

G-207-P00



APPLICATION

G-207-P00 controller can be applied for cold rooms and refrigeration cabinets operating with two compressors and working both in high and low temperatures.

The controller stabilizes temperature and control automatic defrosting.

In case of refrigerator application, cold rooms or freezers it is possible to connect a door open sensor which is responsible for controlling compressor, fan and light depending on time of the door opening.

It is manufactured also with light switch working independently from the main ON/OFF switch.

PROPERTIES

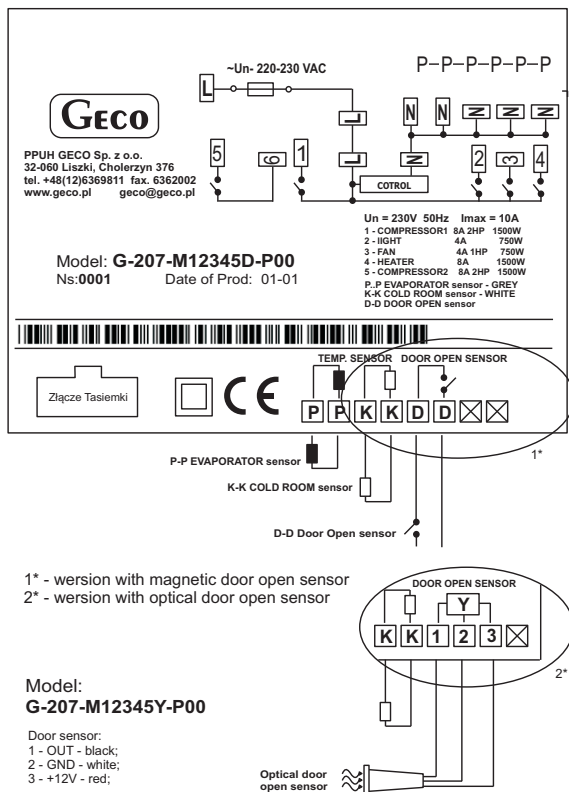
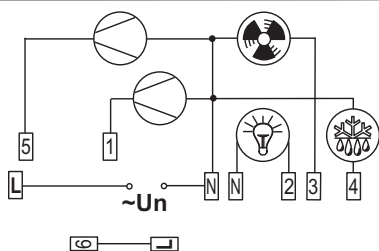
- ON/OFF switch built in.
- The control panel working under safe 5V voltage.
- Hermetic casing.
- 230V power supply of executive module (transformer built-in)
- Possibility to supply power to second compressor from the second phase.
- Built-in fuse on the power supply and switching bar (patch panel).
- 5 relays working under 230V voltage (two relays 30A - for two compressors).
- Two temperature sensors and door open sensor (optical or magnetic).
- Automatic defrosting of evaporator.
- It signals the stage of work of the compressor and defrosting process.
- Signalling of damage in circuits of sensors and emergency work.
- Chance to program and monitor (HACCP) behind the means of the computer and special key.

TECHNICAL DATA

OUTPUT		RELAY	Recommended constant carrying capacity		
P1 – Compressor		30A	8A	1500W	2HP
P2 – Light		16A	4A	750W	-
P3 – Fan		16A	4A	750W	1HP
P4 – Heater		16A	4A	750W	-
P5 – Compressor		30A	8A	1500W	2HP

Operating Voltage	~230V AC +10% / -15%	Input	Sensor
Environment Temp.	From +5°C to +45°C	P-P	Evaporator temp.
Humidity	From 20% to 80% RH	K-K	Cold room temp.
Protection Level	Ip65 Front side on the control panel	D-D (Y)	Optionally magnetic door open sensor (optical)
Sensors type	NTC - range: from -40°C to +60°C		

SCHEME OF CONNECTIONS



LABELING METHOD

Model Label: **G-207-P00Kxx Mxxxxx x**

L - light button, 0 - **without** button

B - sound signal, 0 - **without** sound

1 - compressor 1 relay

2 - light relay, 0 - **without** light relay

3 - fan relay, 0 - **without** fan relay

4 - heater/valve relay, 0 - **without** relay

5 - compressor 2 relay, 0 - **without** relay

door open sensor: D - magnetic,
Y - optical, 0 - **without** sensor;

SET CONTENT

Thermostat:

- control panel
- executive module
- Tape connection the control panel with the executive module
- Two (of ordered length) temperature sensors

Optionally:

- Optical door open sensor
- Magnetic door open sensor

DESCRIPTION

User Parameters

Parameter	Description
P	Temperature setting, up , down

Service Parameters

Parameter	Description
c0	How often should defrosting be started 00 only manual defrosting (no automatic defrosting) -01 without defrosting
c1	Maksimum defrosting time, -01 no time limitation
c2	Minimum standstill of the compressor
c3	Czas ociekania parownika
c4	Time of freezing out of the evaporator, after which fans are started whether the evaporator reaches the preset temperature set by 'd5' or not
c5	Maksimum operation time of the compressor 0 means no test (disabling this parameter)
c6	Standstill of the compressor after safety system trip set by 'c5'
c7	The time of displaying the temperature measured before defrosting after it is ended
c8	Compressor operation time with faulty control sensor
c9	Compressor standstill time with faulty control sensor
d0	Minimum set temperature
d1	Maksimum set temperature
d2	Evaporator temperature at which defrosting will be started
d3	Hysteresis value
d4	Rescaling value of the chamber sensor in relation to actualy measured temperature
d5	Evaporator temperature above which the fans begin operation after finishing the defrosting process
d6	Evaporator temperature above which the fan is always turned off - this parameter is not working during defrosting. Setting the parameter for +40 turns off this control.
r0	Method of fan operation during defrosting.
r1	Specyfing the evaporator defrosting method
r2	Specyfing the evaporator fan operating mode
r3	Specyfing the temperature controll mode: 00 Normal control operation 01 according to evaporator sensor measurement
r5	Defrosting start condition after turning device on
r6	Door open option
r7	Turning on the lightning method
r8	Time from door opening to alarm activation
r9	Area where the door sensor should be hooked up

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