

Electronic thermostat with window drying

G-202-P05



APPLICATION

G202-P05 is designed to control of cooling counters and cabinets where the heating system preventing windows from dewing has been installed.

The system controlling the operation of the window drying can work in the function of: time, time and the temperature and only temperature. It has three temperature sensors in versions with adjustment of the window temperature.

For low, medium and great power equipment the device allows connection of all controlled appliances: the compressor, the heater, the fan and the light, straight into the controller without need to connect additional contactors. It is possible thanks to usage of 16A and 30A relays.

PROPERTIES

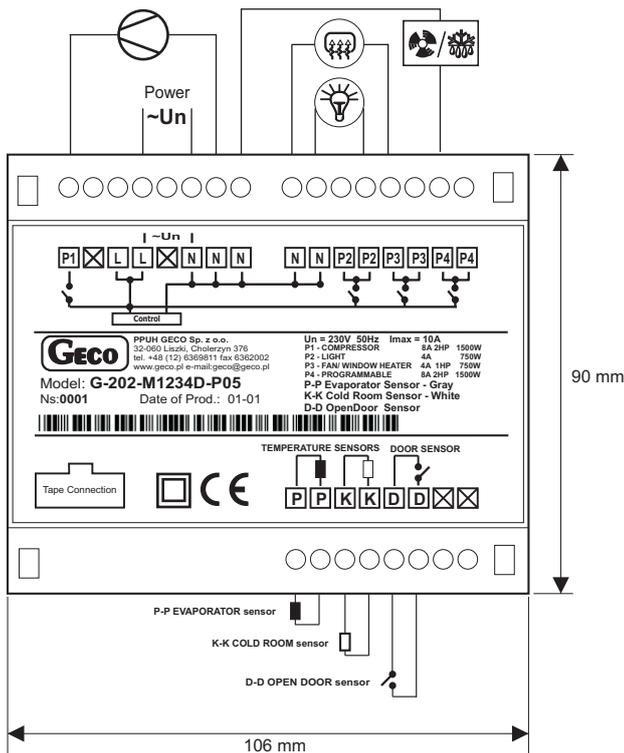
- ON/OFF switch built in.
- The control panel working under safe 5V voltage
- 230V network power supply of the executive module (transformer built in)
- Four outputs of relays operating under 230V voltage.
- Two temperature sensors and door open sensor operating under safe 5V voltage.
- Programmed control of the compressor, the heater, the light, the fan and window drying.
- Automatic defrosting of the evaporator.
- The window drying function.
- It signals the stage of work of the compressor and whole process of the defrosting.
- Signaling (sound and optical) of damage in circuits of sensors and emergency work.
- Chance to programme and monitor the state of work of the thermostat behind means of the computer.

TECHNICAL DATA

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

Operating Voltage	~230V AC +10% / -15%	Door open sensors manufactured by GECO
Environment Temperature	From +5°C to +45°C	
Humidity	From 20% to 80% RH	
Protection Level	IP65 Front side of the control panel	
Sensors type	T1: NTC - range: from -40°C to +60°C T2: NTC - range: from -40°C to +60°C	
		Optical: CZ-PO-SZ-2.0m
		Magnetic: CTC-2.0m
		Any other O/I sensor

SCHEME OF CONNECTIONS



LABELING METHOD

Model label: **G-202-P05Kxx M1x3x x**

Light button
L- available; 0-no button

Sound signal
B- available; 0-no sound

Light relay:
2- available; 0 -no relay

Programmable relay:
4- available; 0 - no relay

Digital Input:
D- available connection to short-circuit sensor
Y- available connection to optical sensor
0- no connection

SET CONTENT

Thermostat:

- Control panel
- Executive module
- Tape connecting the control panel with the executive module.
- Two, of ordered length, temperature sensors

Additionally it is possible to order open door sensors, which operate without contact:

- Magnetic sensor
- Optical sensor

DESCRIPTION

G202-P05 is the controller for cooling counters that additionally have the function of the window drying.

G202-P05 uses the compressor to stabilize the temperature in the cold room. The compressor control includes protections against too frequent turning on and off.

In defined periods of time device enters automatic defrosting of the evaporator mode. Defrosting has a various run depending on settings of the controller for instance: the drip phase starts after the defrosting phase.

G202-P05 has the button to turn defrosting on. This button can be used during difficult conditions of the device operation.

Manual and automatic defrosting both have the same run.

The controller has the cut-off switch. After the device is turned off the compressor, the heater, and the fan are turned off too. The button and the light relay work independently from the cut-off switch.

The door opening turns the light on, turns the fan off and after one minute turns the compressor off. The door opening is signaled with a sound every 30 seconds. Too long door opening is alarmed.

G202-P05 has the button to turn window drying on. This function is implemented by blow-in or heating.

User sets the temperature in the cold room.

G202-P05 displays the temperature measured with the cold room sensor. User can turn on temporary view of the temperature on the evaporator sensor

In case of the sensor failure the controller displays alarm code and operates using the emergency mode.

The controller has service internal parameters that describe its methods of work. These parameters can be programmed by choosing specific mode in the controller or behind means of the computer.

G202-P05 has the connection for communication with the computer. It is possible to control single thermostat as well as whole net of thermostats with the chance to connect and control other thermostats manufactured by GECO.

CASE DIMENSIONS

