

mini



mini

OEM

HVAC + R



mini

MAIN FUNCTIONS

REFRIGERATION

CLIMATIZATION

SPECIAL FUNCTIONS

CHARACTERISTICS

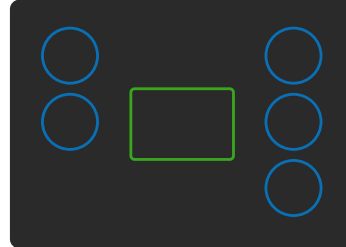
- 7 segment LED Display
- Client Logo on the panel (optional)
- Great Cost X Benefit
- Function Hourmeters
- Custom Design
- Customized Functions
- One-Wire Communication (optional)
- Backlit Buttons
- Bluetooth and WiFi Modules Interface
- Integrated or remote I/Os (ECU)
- USB interface through ECU (optional)
- Telematics through additional module
- Two temperature scales (°F ou °C)
- Metalic or plastic housing

AVAILABLE FOR



COMPACT PANEL, POTENT AIR CONDITIONING CONTROL PANEL.

INTERFACE POSITIONS



mini

DISPLAY

LED DISPLAY
7 segment LED Display
Selectable temperature scale °F ou °C
10 Languages



BUTTONS

5 BUTTON KEYBOARD

On/Off Function
2 button adjustments
Fresh Air

VENTILATION CONTROL
AIR CONDITIONING CONTROL



CONFIGURATION OPTIONS

INPUTS: Analog and Digital

OUTPUTS: Negative Digitals or through external ECU: Analogs, Positive Digitals, Bridge (flap motor) and PWM

COMMUNICATION: ECU Module or Telematics Module

FUNCTIONS UNDER REQUEST



WI-FI



BLUETOOTH



CELL PHONE
INTERFACE



CAN BUS



REMOTE I/O
NETWORK



DATA
LOGGER



CUSTOMIZABLE
INTERFACES

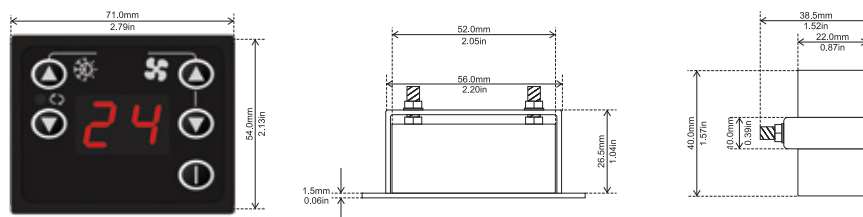


TECHNICAL DATA

OEM

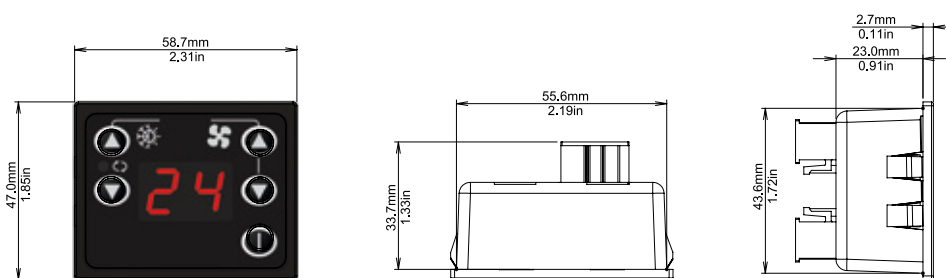
HVAC + R

mini METALIC HOUSING



Approximated weight: 120g

mini PLASTIC HOUSING



Approximated weight: 50g

CONNECTORS



MINI-FIT
6 ways - Part Number: 39-01-2060
Terminal - PN: 39-00-0038
Manufacturer: Molex



MINI-FIT
8 ways - Part Number: 39-01-2080
Terminal - PN: 39-00-0038
Manufacturer: Molex

TECHNICAL DATA	
OPERATING VOLTAGE	12 Vdc to 24 Vdc
VOLTAGE RANGE	10 Vdc to 30 Vdc
MAXIMUM VOLTAGE	32 Vdc during 5mins.
MAXIMUM CURRENT PER OUTPUT	500mA
OUTPUT SHORT-CIRCUIT	Protected
REVERSE POLARITY	Protected
OPERATING TEMPERATURE	-40°C to +85°C / -40°F to +185°F (Normal or extended temperature range options)
STORAGE TEMPERATURE	-40°C to +85°C / -40°F to +185°F
TEMPERATURE SENSOR	NTC (Other types under request)
FRONTAL PROTECTION DEGREE	IP 54
COMMUNICATION	One Wire
MAXIMUM CURRENT CONSUMPTION	12 Vdc @ 20mA / 24 Vdc @ 25mA *
STANDBY CONSUMPTION	N/A

* Consumption may vary according to customer specifications.
We keep the right to update or change information regarding products without prior notice.

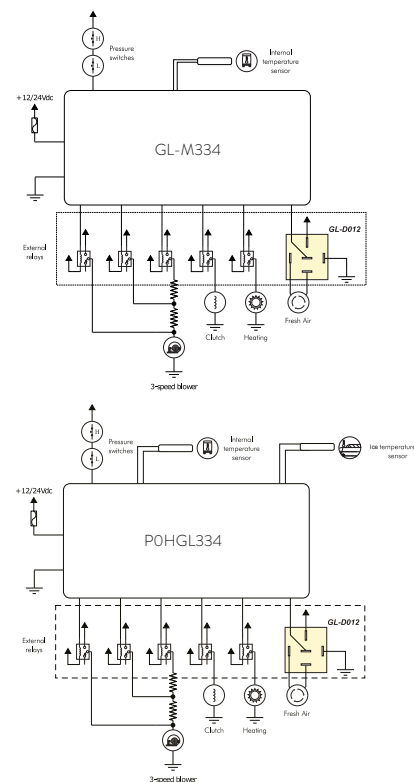


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7 SEGMENT DISPLAY AIR CONDITIONING CONTROL PANEL

GL-M334

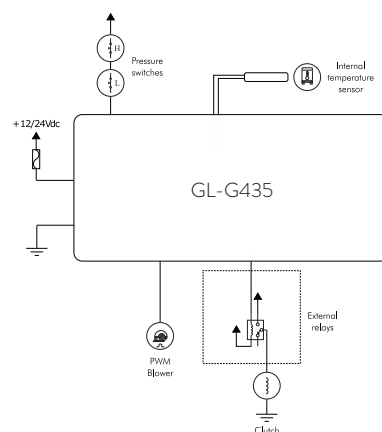
- Return sensor input
- Pressure Switch input (digital) - GL M334
- Coil temperature sensor input - GL-POHGL334
- 3 speed evaporator output
- Compressor/Condenser output
- Heating output
- Fresh Air output
- Plastic housing



AIR CONDITIONING CONTROL PANEL, 7 SEGMENT LED DISPLAY

GL-G435

- PWM Ventilation (6 speeds)
- Pressure Switch Input (digital)
- Return Temperature Sensor
- Metallic housing



Choose the option most adequate to your system

PIN CN1	MINI POSSIBLE CONFIGURATIONS - HARDWARE 1		
1	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--
2	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--
3	DIGITAL OUTPUT NEGATIVE 0.5A	OR	(*)
4	DIGITAL OUTPUT NEGATIVE 0.5A	OR	ONE WIRE
5	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--
6	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--
PIN CN2			
1	GND	OR	--
2	GND	OR	--
2	GND	OR	--
4	GND	OR	--
5	ANALOG INPUT	OR	DIGITAL INPUT
6	ANALOG INPUT	OR	DIGITAL INPUT
7	ANALOG INPUT	OR	DIGITAL INPUT
8	POWER SUPPLY	OR	--

(*) Quando usar a comunicação ONE WIRE não é possível usar essa saída.

PIN	MINI POSSIBLE CONFIGURATIONS - HARDWARE 2		
1	GND	OR	--
2	GND	OR	--
3	GND	OR	--
4	ONE WIRE	OR	--
5	ANALOG INPUT	OR	DIGITAL INPUT
6	ANALOG INPUT	OR	DIGITAL INPUT
7	POWER SUPPLY	OR	--
8	POWER SUPPLY	OR	--

PIN CN1	MINI PCI P0HAM600 POSSIBLE CONFIGURATIONS - HARDWARE 3		
1	DIGITAL OUTPUT POSITIVE 0.5A	OR	--
2	DIGITAL OUTPUT POSITIVE 0.5A	OR	--
3	DIGITAL OUTPUT POSITIVE 0.5A	OR	--
4	DIGITAL OUTPUT POSITIVE 0.5A	OR	--
5	DIGITAL OUTPUT POSITIVE 0.5A	OR	--
6	DIGITAL OUTPUT POSITIVE 0.5A	OR	--
PIN CN1			
1	GND	OR	--
2	GND	OR	--
3	GND	OR	--
4	GND	OR	--
5	ANALOG INPUT	OR	DIGITAL INPUT
6	ANALOG INPUT	OR	DIGITAL INPUT
7	ANALOG INPUT	OR	DIGITAL INPUT
8	POWER SUPPLY	OR	--

PRODUCT CONFIGURATION

PIN CN1	MINI POSSIBLE CONFIGURATIONS - HARDWARE 4				
1	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--	OR	--
2	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--	OR	--
3	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--	OR	--
4	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--	OR	--
5	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--	OR	--
6	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--	OR	--
PIN CN2					
1	GND	OR	--	OR	--
2	GND	OR	--	OR	--
2	GND	OR	--	OR	--
4	GND	OR	--	OR	--
5	ANALOG INPUT	OR	DIGITAL INPUT	OR	--
6	ANALOG INPUT	OR	DIGITAL INPUT	OR	--
7	ANALOG INPUT	OR	DIGITAL INPUT	OR	ONE WIRE
8	POWER SUPPLY	OR	--	OR	--

PIN CN1	MINI POSSIBLE CONFIGURATIONS - HARDWARE 5				
1	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--	OR	--
2	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--	OR	--
3	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--	OR	--
4	DIGITAL OUTPUT NEGATIVE 0.5A	OR	PWM OUTPUT	OR	--
5	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--	OR	--
6	DIGITAL OUTPUT NEGATIVE 0.5A	OR	PWM OUTPUT	OR	--
PIN CN2					
1	GND	OR	--	OR	--
2	GND	OR	--	OR	--
2	GND	OR	--	OR	--
4	GND	OR	--	OR	--
5	ANALOG INPUT	OR	DIGITAL INPUT	OR	--
6	ANALOG INPUT	OR	DIGITAL INPUT	OR	--
7	ANALOG INPUT	OR	DIGITAL INPUT	OR	ONE WIRE
8	POWER SUPPLY	OR	--	OR	--



WE ARE TODAY.
WE ARE TOMORROW.
WE ARE GLOBUS!



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Electronics



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