

# HVAC SMART CONTROL DEVICES

**CoolAutomation provides a 360° experience for HVAC automation - a one stop solution for all HVAC systems.**

We have enhanced our offering beyond connecting VRF and Split systems, and we are complementing it a variety of controllers for non-VRF HVAC systems, such as heat pumps, fan coils, rooftop & packaged units, chillers, on/off controllers and analog & digital external sensors.

These smart devices provide a complete view of all the systems that are installed on-site, enabling the systems to be remotely managed, diagnosed, serviced, and controlled through CoolAutomation's cloud solutions.

Once connected to the CoolAutomation devices, these controllers also allow for an easy and seamless integration into Home Automation systems.

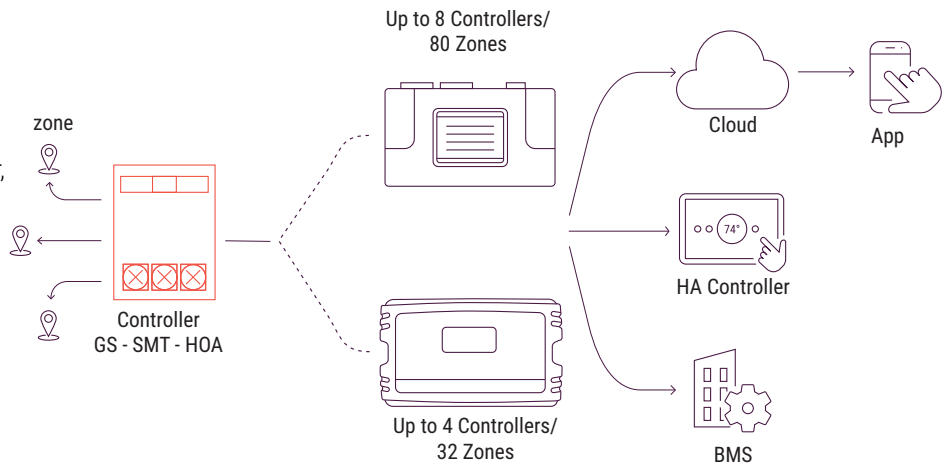
# Underfloor Heating Controller

## Main Functions

- Read Zone Temp from an external (included) sensor
- Each zone is separately displayed/controlled in Cloud Apps
- 8 separate loops – each with Temp sensor, setpoint, Output

## Technical information

- 8 x 10K Temperature sensors
- 8 Relay Outputs, 5Amp
- Up to 4 Controllers (total 32 zones) connected with CoolLinkBridge
- Up to 10 Controllers (total 80 zones) connected with CoolMasterNet
- Power Input: 24Vdc, 0.5A



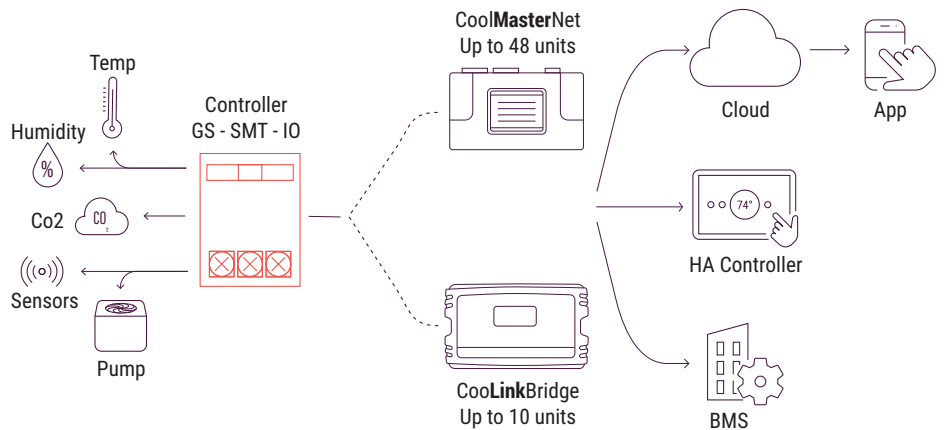
# Multi-Purpose I/O Controller

## Main Functions

- Control ON/OFF systems
  - Fans, Pumps, Blowers, Lights
- Get System/Fault status over dry contact
- Monitor sensors with standard control signals
- Each I/O point is separately displayed in Cloud Apps

## Technical information

- 8 Universal Inputs.
  - Each can be set as either:
    - 10K Temp Sensor
    - 0-10Vdc or 4-20mA (with resistor)
    - Digital inputs
- 10 relay Outputs- Volt Free- NO/NC
- 2 Analog outputs 0-10Vdc
- Power Input: 24Vdc, 0.5A



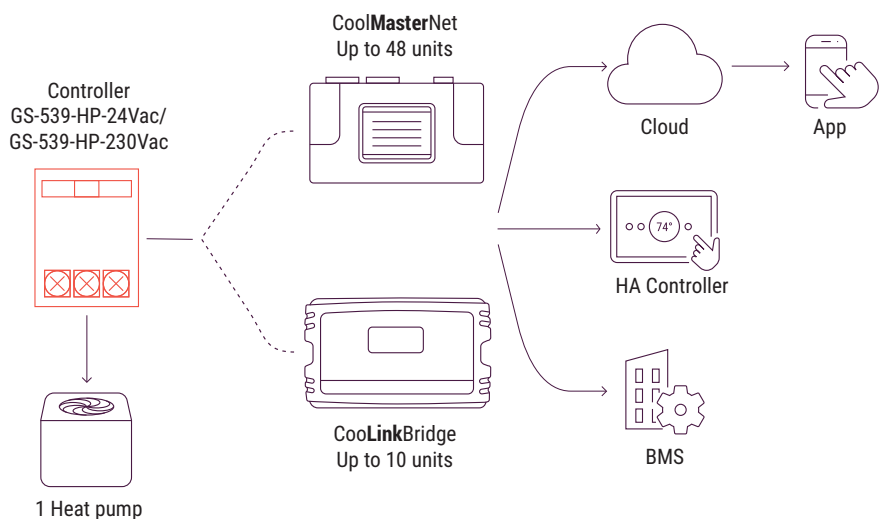
# Heat Pump Controller

## Main Functions

- Din rail mounting
- Detachable connectors
- I/O and communication LED indication
- Modbus RTU network interface
- Each unit is separately displayed/controlled in Cloud Apps
- Control voltage options:
  - 24Vac (GS-539-HP-24Vac)
  - 230Vac (GS-539-HP-230Vac)

## Technical Information

- Up to 10 Controllers connected with CoolLinkBridge
- Up to 48 Controllers connected with CoolMasterNet port



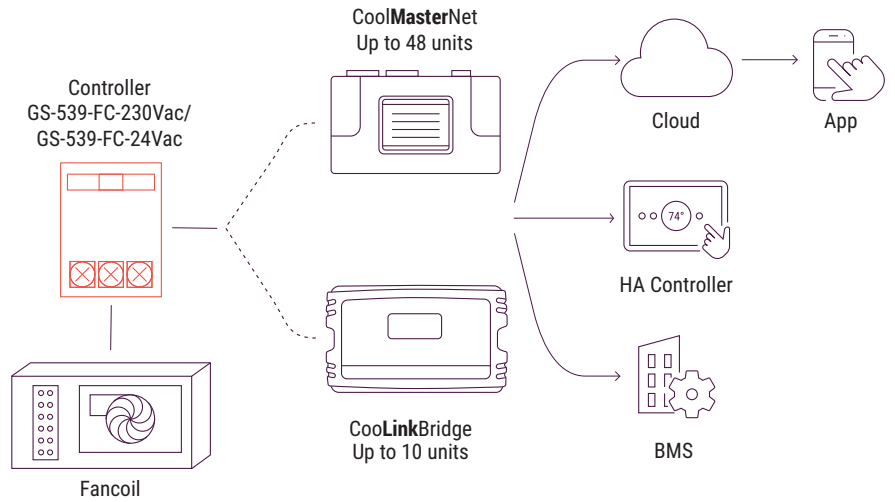
# Fan Coil Controller

## Main Functions

- Din rail mounting
- Detachable connectors
- I/O and communication LED indication
- Modbus RTU network interface
- Each unit is separately displayed/controlled in Cloud Apps

## Technical information

- Up to 10 Controllers connected with CoolLinkBridge
- Up to 48 Controllers connected with CoolMasterNet port



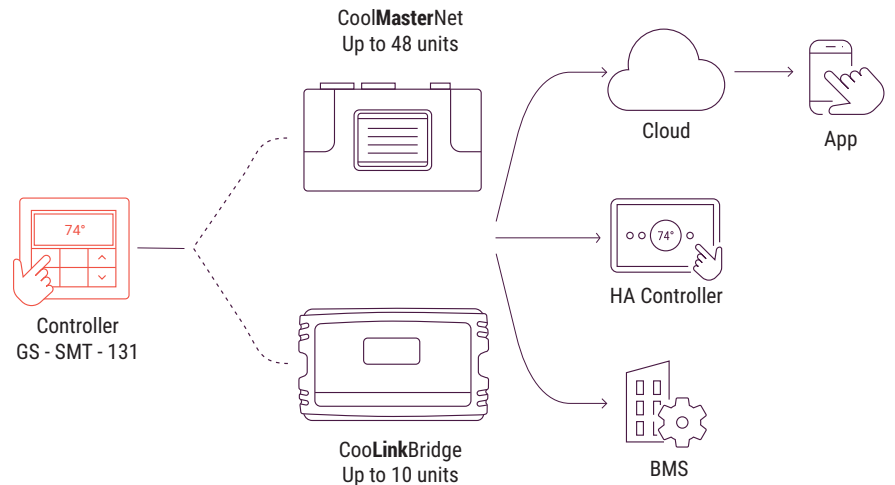
# Touch-Screen, Wall Mounted Controller

## Main Functions

- TFT touch screen interface
- On/Off, Setpoint, Fan speed control
- Onboard temperature sensor for Room temperature reading
- Modbus RTU network interface
- 24VAC power and control
- Selectable fan type and cool/heat outputs
- PIR, door and window inputs (Dry contact Volt Free)
- Relay and 0-10V equipment control logic outputs
- Each controller is separately displayed/controlled in Cloud Apps

## Technical information

- Up to 10 units per CoolLinkBridge
- Up to 48 units per CoolMasterNet line
- Power Input: 24Vac
- Size: 113 x 103 x 25mm



# ABOUT COOLAUTOMATION

Founded in 2009, CoolAutomation is the industry leader of solutions that enable HVAC systems to be locally or remotely controlled, managed, and serviced. Our solutions are designed to allow any climate system to be internet-connected easily, securely, and reliably.

CoolAutomation's unique combination of devices and cloud-based technologies are the next evolution of IoT. They are crucial to any professional in the HVAC, facility management and automation industries.

Our solutions enable remote management, diagnostics, service, and control of any HVAC system within the residential and commercial realms. Our specialization in HVAC, hardware, firmware, and cloud development, position us as experts in HVAC standardization; allowing us to provide our clients with a one-stop solution, for accessing and interfacing with HVAC systems.

CoolAutomation is a global company, with offices in the US, and with tens of thousands of customers in over 100 countries.

