

THE MERLIN RANGE

CT1250 SYSTEM

The Merlin CT1250 ventilation interlock system, with built in current monitoring, is designed specifically for use in commercial kitchens to meet AS-NZS 5601.2010. This panel is to be used when the kitchen appliances do have flame failure devices, therefore Gas proving is not a requirement.

A gas interlock system is an essential safety system for any commercial kitchen. These systems ensure the ventilation is running before gas is introduced into the kitchen to prevent the build-up of carbon monoxide and other harmful by-products, which can be inhaled by kitchen staff and cause illness or death.

The Merlin CT1250 acts an interlock between the ventilation system and the gas solenoid valve. The system has built in current monitors in order to interlock with up to two fans and offers an alternative to using air pressure differential switches.



Key Features of the Merlin CT1250 System

- Allows Compliance with AS-NZS 5601.2010 for commercial kitchens
- To be used when all appliances have flame failure devices
- 2 built in current monitors can be easily adjusted to the user's requirements
- Reliable method of interlock, with no moving parts there's little to go wrong
- BMS Terminals Normally Closed or Normally open and common.
- Will accept remote emergency knock-off buttons.
- Can monitor 2 fans with running currents between 0.1A – 20A.
- Clear LED display for system indications
- Can be used when pressure differential switches cannot be used e.g. wall-mounted fans
- Straightforward to install and calibrate. The CT1250 can be easily adjusted to the user's requirements
- Easy installation

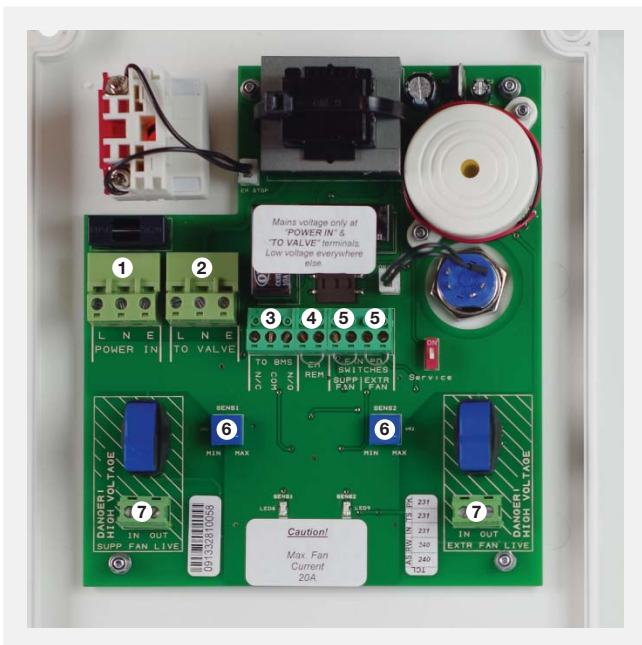


ENGINEERED TO MEET AS-NZS 5601.2010

When the fan is turned “on” the CT1250 monitors the electrical current going to the fan motor, when there is sufficient current going to the fan motor our panel receives a signal to indicate the fans are operating. Turning the key to the “on” position will open the gas solenoid valve. If the fans should fail, the “fan fault” LED on the panel will illuminate and the gas solenoid valve will close.

When there is a “fan fault” the supply fan or extract fan led on the Merlin CT1250 panel fascia will flash. This informs the electrician or kitchen staff which fan has failed. Operating the system in the above manner will ensure the requirements of BS6173 are fully met where all the catering equipment has flame failure devices fitted. Wiring of the system is straightforward using volt free connections for all BMS and remote emergency stops. A Gas Safe installer would be required to fit the gas solenoid valve.

Calibration of the current monitor is easy, once wired set the fan speed controller to setting 1 (or low setting) for example. Turn the blue rotary switches anti-clockwise until the green LED goes out, and then slowly turn clockwise until the green LED is again illuminated. This will give you the minimum current requirement, if the fan is turned off the LED will go out; send a signal to the Merlin panel, which will in turn shut off the gas.



Merlin CT1250 System Wiring Diagram

1. 230v AC Supply
2. 230v AC output to valve
3. Terminal for BMS connections
4. Remote emergency stop Input
5. Fan sensor input- close when fan on -
(for use with PD switches)
6. Pots are adjusted to increase or decrease sensitivity
7. Live wire going to the fan goes in and back out onto the fan

Merlin CT1250 Box Dimensions

Height	254mm
Length	178mm
Depth	62mm

