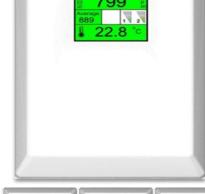
Model: AGS CO2 TFT **Technical Specification Sheet**

Merlin CO2 Monitor Advanced Indoor Air Quality Sensing Technology









Key Features

- Dual power 100-120VAC or 12-24VAC or DC inputs
- Automatically drive ventilation fans reducing CO2 and/or temperature
- 0-10V Signal output progress bar display
- Monitor, record and display average CO2 concentration over 8 hour periods.
- End of Life and Fault notifications for CO2 sensing
- Automatically switch between ventilation programs when gas is being used
- Pre-alarm and alarm relay output
- Temperature can be displayed in degrees Celsius or Fahrenheit
- Boost, mute and wake up button
- CO2 measured and displayed in parts per million (PPM)

Overview

The Merlin CO2 TFT Monitor is a wall mounted CO2 and temperature monitor that provides precise, easy to read measurements in a single device. Using relays and 0-10vdc outputs the unit can interface with all modern BAS systems. The continuous CO² self-recalibration feature eliminates the need for routine maintenance. Available in 110/120vac or 12-24VAC / DC with industrial grade electronics we can ensure exceptional accuracy and long term reliability. The Merlin CO2 TFT monitor gives a clear TFT display reading to show the occupant a precise ppm CO² level and the ambient room temperature. A unique "traffic light" color code system gives a clear representation of the air quality in the room with three color indications.

The Merlin CO2 TFT monitor can be used independently or in conjunction with one of the Merlin range of Gas Safety Systems. An audible alarm can be employed where required. A simple dip switch on the circuit board is used to turn the audible alarm on or off.

Relays can activate ancillary devices at set alarm points and a 0-10vdc output in direct relation to the CO² concentration can signal the BMS or automatically drive ventilation fans reducing CO² and/ or temperature. If both the CO² and temperature levels are at a safe level (green), the CO2 TFT screen will enter a screen saver mode and will switch off. No readings or messages will be visible during this time.

Application

- Precise CO² sensing for integration in modern BAS systems.
- Control ventilation.
- Monitor and Control CO² concentrations.
- Commercial Kitchens, School Classrooms, Dormitories / Multi occupancy dwellings.
- Commercial Garages, Mechanical rooms, Manufacturing plants, Gyms.

Gas Safety Systems Utility Control

Model: AGS CO2 TFT Technical Specification Sheet

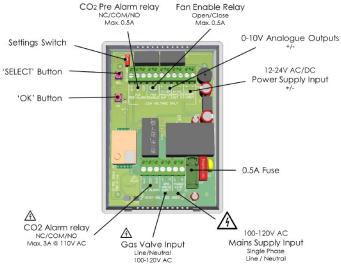
Merlin CO2 Monitor Advanced Indoor Air Quality Sensing Technology



Technical Specifications

CO2 Gas level / Temperature level / Measurement value / Boost / End of life / Sensor fault / Gas in use / Mute / Average co2 level
COZ Gas level / Telliperature level / Iviedsurement value / BOOST / End of the / Sensor Tault / Gas in use / Ividle / Average COZ level
1.8" TFT—Thin Film Transistor
Low. Medium. High
One (1) Minute
100-120V AC 50-60Hz (Max 2.16VA without load) or 12-24V AC/DC (25V AC/DC Max)
100-120V AC
Max 0.5A Signal
Max 3A @ 240V
Max 0.5A Signal
2.16 W Max
0.5A / 120 V AC
0-40°C (104°F) 0-95%RH Non-Condensing
65 dB (300mm distance in quiet conditions)
NDIR, Intelligent Infrared CO2 Module. ABC Logic Auto Calibration
400-5000ppm
± 100ppm
Every Three Seconds
Every Ten Minutes
10 Years
Linear Active Thermistor Integrated Circuit
0-95°C / 0-203°F
± 2°C Max
0.1°C/0.1°F
140 x 95 x 30mm / 5.5 x 3.74 x 1.18"
256g / 9.03oz

Board Overview



Area of coverage

Consider the coverage required and function of the area. Emphasis should be placed on airflow patterns and correct placement, not perceived detecting ranges. The target gas will only be identified when contact is made with the sensing element itself.

Your monitor should be installed in populated areas that risk high concentrations of CO2 gas or varied temperatures e.g. educational and government building including laboratories and commercial kitchens.

Typical Positioning

Laboratories/Educational buildings	Seated head height
Commercial kitchens	1700mm (5.6ft) from ground level

These recommended heights may vary based on air flow and temperature conditions in addition to the proposed application and location

Gas Safety Systems

Utility Control