UNDER CONTROL INSTRUMENTS LTD

UCI GICS2601

Gas Interlock System

Installation & Operating Manual

Unit 5 Junction 6 Industrial Park Electric
Avenue Birmingham B6 7JJ

1. Safety Information

- Read this manual fully before operating the system.
- Do not attempt installation or repair unless qualified.
- Isolate mains power before wiring.

2. System Overview

The UCI **GICS2601** is a ventilation interlock panel equipped with:

- Two built-in current monitors.
- Inputs for remote air pressure differential switches.
- Remote emergency shut-off button integration.
- Compatibility with **BMS** and **fire alarm systems.**

3. Electrical Connections

- **Power Supply:**

  Connect **100–240 VAC mains** to Power in "Power In" (**Figure 1**), externally fused at **3A**.

- **Gas Valve Output:**

  Provides **100–240 VAC** to the gas solenoid via "To valve" (**Figure 2**).

- **BMS Integration:**

  Terminals "To BMS" (**Figure 4**)

  - N/C (Normally Closed)
  - COM (Common)
  - N/O (Normally Open) Volt-free contacts for external signaling.

- **Remote Emergency Buttons:**

  Connect to EM (**Figure 4**). Factory linked; ensure volt-free wiring.

- **Fan PD Switches:**

  Inputs for external air pressure switches or current monitors. Use two-core volt-free wiring. (**Figure 4**)

- **Fan Current Monitoring:**

  - "Supp fan live" – Supply fan (**Figure 5**)
  - "Extr fan live" – Extract fan (**Figure 6**)

  Max load: **20A**.

- **Potentiometers:**

  - [SENS1] for supply fan
  - [SENS2] for extract fan

  Calibration steps included below.

4. Calibration

- Run fans at minimum required speed.
- Turn potentiometer clockwise until green LED lights.
- **Important:** If one or both of the current sensors are being used, remove the corresponding links in the [FAN PD SWITCHES] terminals.
- Do not overtighten potentiometers.

5. Service Mode

- Service dip switch ON = Gas valve stays open for **4 hours** without fans.
- After 4 hours, gas shuts off automatically.

6. Operation

- **System ON:** Turn fans on → Key switch ON.
- **System OFF:** Key switch OFF.
- **Emergency Shut-Off:** Press button (panel or remote). Reset to reinstate.
- **BMS & Fire Alarm Integration:** Wire as per diagram to [TO BMS] and [EM REM].

7. LED Status Guide

LED	Status	Meaning
Power	ON	Mains connected
Gas On	ON	Gas valve open
EM Stop	Amber	Emergency stop active
Supply Fan	Flashing	Fan fault
Extract Fan	Flashing	Fan fault
Fan Fault	Amber	Gas shut off due to ventilation fault
Service	Flashing	Service period ended

8. Important Notes

- Contact service company for faults.
- Do not attempt repairs unless qualified.

9. Diagram

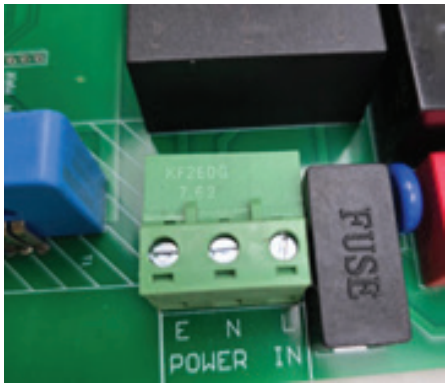


figure 1

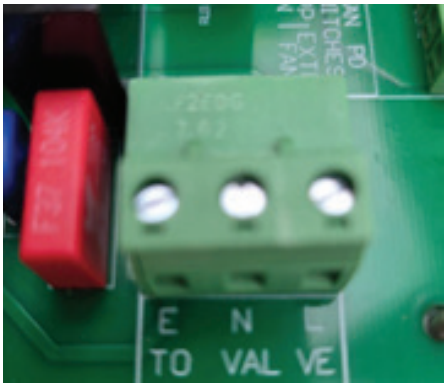


figure 2

figure 3

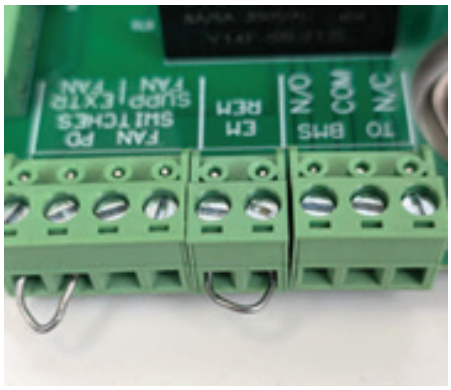


figure 4

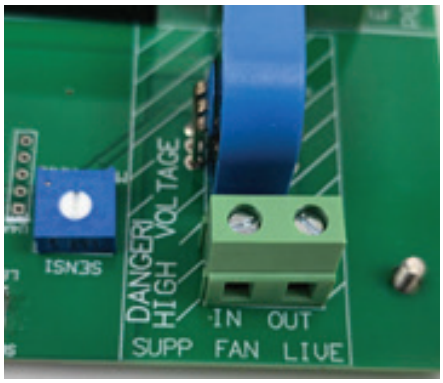


figure 5

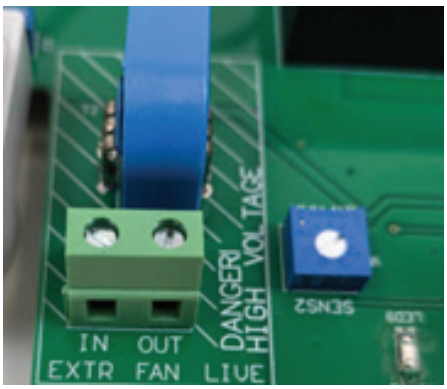
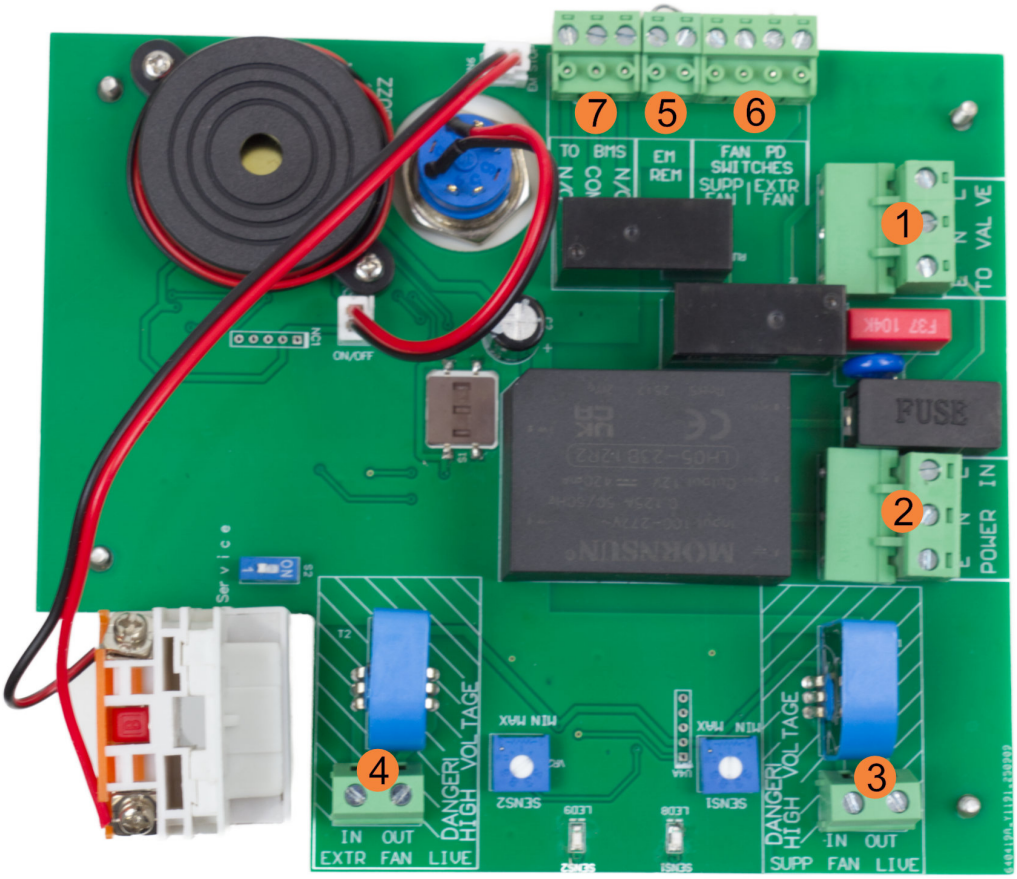


figure 6

GICS2601 Gas Interlock
Panel wiring instructions



To make wiring easier, terminals 1 and 2 can be removed first.

1. 240 V AC connection to gas solenoid valve (L, N, E).

2. Mains power supply to control board: 240 V AC (L, N, E).

3. Take live feed from fan speed controller, connect it to the “IN”, connect another wire from; “OUT” back to the L terminal of fan speed.**

4. Take live feed from fan speed controller, connect it to the “IN”, connect another wire from; “OUT” back to the L terminal of fan speed.**

5. Volt-free contacts for emergency stop button.***

6. Volt-free contacts for pressure differential switches.***

7. Volt-free contacts for BMS (Building Management System).

** A n*eutral supply to be fitted to the separate fan speed controller.*

****If pressure switches or emergency stop button are not being used terminal links must remain in place.*