



Intelligas MSC101

Multi Function Controller

The MSC101 is a microprocessor based multi services & multi function controller. It provides not only the control of building services but also compliance with building bulletin 101 (carbon dioxide levels in classrooms). This makes the unit ideally suited to the school laboratory environment for example.

The capabilities of the MSC101 may at first sound complicated but the functionality of the unit is controlled by dip switches mounted on the main PCB and are simple to set up. We've taken care of the complicated bit in the software, so installers don't have to. As always clear and concise instructions are provided as is the 24 hour technical support line.

We think we've got all bases covered but as always we can provide bespoke software to satisfy all requirements. The unit is future proofed as extra interlock terminals and 0 - 10v outputs are provided. The unit can process 0 - 10v inputs or switched inputs making it completely "open protocol" meaning virtually any sensors existing or new can be connected and work effectively to satisfy the regulations.

The system can be wired to communicate with building BMS systems and there are terminals for the external switching on and off of the system. This means the system can be shut off at the end of the day to ensure energy wastage is kept to a minimum and gas and electric services are safely isolated.

Key Features

- Provides the user with complete control over electric water and gas supplies in, for example, a school laboratory.
- Automatic gas proving as standard
- Keyswitch authorisation required for all changes to isolated / active services
- BB101 (carbon dioxide levels in classrooms) compliant. Choose between either switched detector inputs or 0 - 10v input.
- Ventilation speed control. 0 - 10v output can be appended to either the switched BB101 input or to the 0 - 10v input
- Completely BMS compatible, switched outputs to indicate gas and electric positions and a further switched output can be set to indicate water position or BB101 state. Remote on / off terminals allows the BMS to de-energise all outputs at the close of business
- Fascia mounted emergency stop and emergency stop indicated on the panel fascia. Additional Remote emergency stop terminals are provided.
- Fire alarm interface terminals separately indicated on front panel fascia
- Auxiliary interlock terminals are provided for the connection of gas or carbon monoxide detectors. These interlocks can be set to shut down services or indicate a warning. Auxiliary interlock separately indicated on front panel fascia
- The system fascia can be mounted remotely from the main wiring PCB and linked with a 6-core alarm cable. This facilitates easier wiring as all the mains and control wiring etc can be carried out locally to the fuse boards reducing the need for large containment systems in the classroom.

Guarantee

Don't forget that your purchase is fully backed by our guarantee. Firstly, if you're unhappy with the system you can return it within 14 days for a full refund - no questions asked. If you're happy with the system, it is covered for 2 years against faulty parts or workmanship.

To order or for further information please contact Intelligas Ltd:

Telephone: 0845 004 2496 or 07952 269 791



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Technical Specification

Using the pioneering software integrated on the micro-processor the system parameters are set up using easy to understand instructions and 8 dip switches. to ensure safety certain system actions are set in the software. There are however many user selectable parameters. See below for a list of selectable parameters and how easy it is to understand:

CO2 Signal selector

Sw 1 On CO2 input switched
Sw 1 Off CO2 input analogue 0-10v

CO2 Action

Sw 2 On CO2 stops services
Sw 2 Off CO2 LED & Buzzer only

CO2 Output

Sw 3 On Relay 4 signals high CO2
Sw 3 Off Relay 4 follows water valve position

Gas Proving Time

Sw 4 On Proving time 30 secs
Sw 4 Off Proving time 60 secs

Auxiliary interlock action

Sw 5 On System shuts down gas and electric
Sw 5 Off System indicator and buzzer only

Action on failed gas prove

Sw 6 On Red LED only
Sw 6 Off LED and buzzer

Gas valve position indicator

Sw 7 On relay 2 follows gas valve exactly
Sw 7 Off relay 2 only changes position on successful prove / off

Sw 8 is spare for future use

Need to change a setting after installation? No problem!

Change the dip switch position and press the master reset button mounted on the PCB and job done. As any installer would come to expect from Intelligas this product is built to make the installation as easy as it possibly can be.

Intelligas designers know the difficulties of onsite wiring and first fixing that's why we've made the fascia removable and remote if necessary, normally all the electrics and gas systems in a school lab are "back of house". This is no problem; mount the master PCB enclosure in the "back of house area" and run a 6 core alarm cable to the main fascia and dummy back box, all the wiring can then be done locally to the main PCB leaving the class room virtually untouched.



Intelligas MSC101
Multi Function Services