

SCIENCE LAB UTILITY CONTROLLERS



INCORPORATING GAS
PRESSURE PROVING,
ENGINEERED TO
DELIVER EXCEPTIONAL
LEVELS OF SAFETY

AGS
●●●●●●●●●●
AMERICAN GAS SAFETY



GAS SAFETY IN EVERY ENVIRONMENT

Modern designs developed by experts in gas safety

Our fully qualified engineers and designers keep up to date with industry advancements and solution developments, adhering to all building codes and regulations, as well as health and safety legislation.

Our customers can feel assured that the solutions we are providing along with the technical backup are second to none.

American Gas Safety is a family run and operated business with excellent customer service and value for money at its core.



Full technical support
available



Competitively
priced



Complete after
sales care



Easy Installation



Modern digital
design



Express delivery
available
nationwide

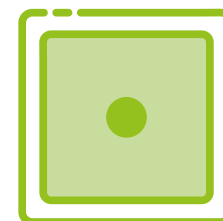
Full product catalogue and operating and maintenance guides are available online at AMERICANGASSAFETY.COM

Key feature icons

The benefits of each of our products are illustrated in an icon format throughout this brochure, aiding you to select the product and design features most suited for your requirements.

The icons are located at the bottom of each product description with accompanying detail for ease of reference and comparison of the solutions we have available.

If you have any questions about any products and their features please contact info@americangassafety.com.



UTILITY ISOLATION



KEY LOCK CONTROL



UNIQUE GAS PRESSURE
PROVING



EMERGENCY SHUTDOWN



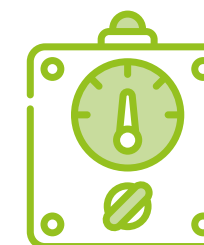
FIRE PANEL INTEGRATION



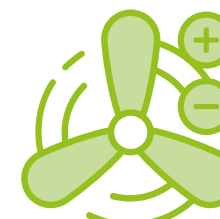
BAS INTEGRATION



TIME OUT FACILITY



EXTERNAL GAS DETECTOR



FAN CONTROL



UL LISTED

Unique pressure proving technology, providing confidence and peace of mind

Providing pressure drop analysis on the gas train upon each activation ensures all gas taps and appliances are closed and in the off position before allowing gas into the space. The pressure drop test also ensures all pipe work is intact and free from fault or damage. This simple 30 second test provides a unique safe start up environment for the user.

The AGS solutions are already protecting hundreds of academic properties across the United States. With over 20 years of experience manufacturing and developing a complete line of high quality gas safety systems that are UL certified and designed to meet all the relevant NFPA & ICC codes and standards, we can help you design safe and code compliant projects.



SAFE



SMART



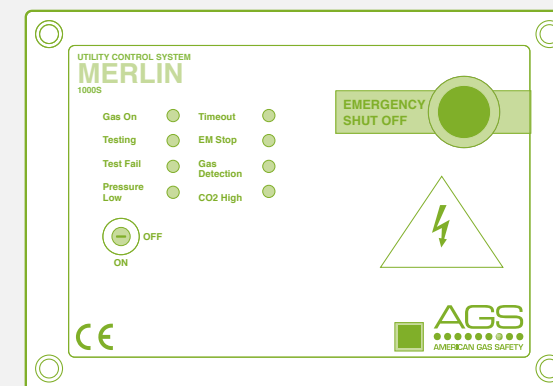
SIMPLE

DAVIDSON

Yale

Quinnipiac
UNIVERSITY

MERLIN 1000S UTILITY CONTROLLER INCORPORATING GAS PRESSURE PROVING



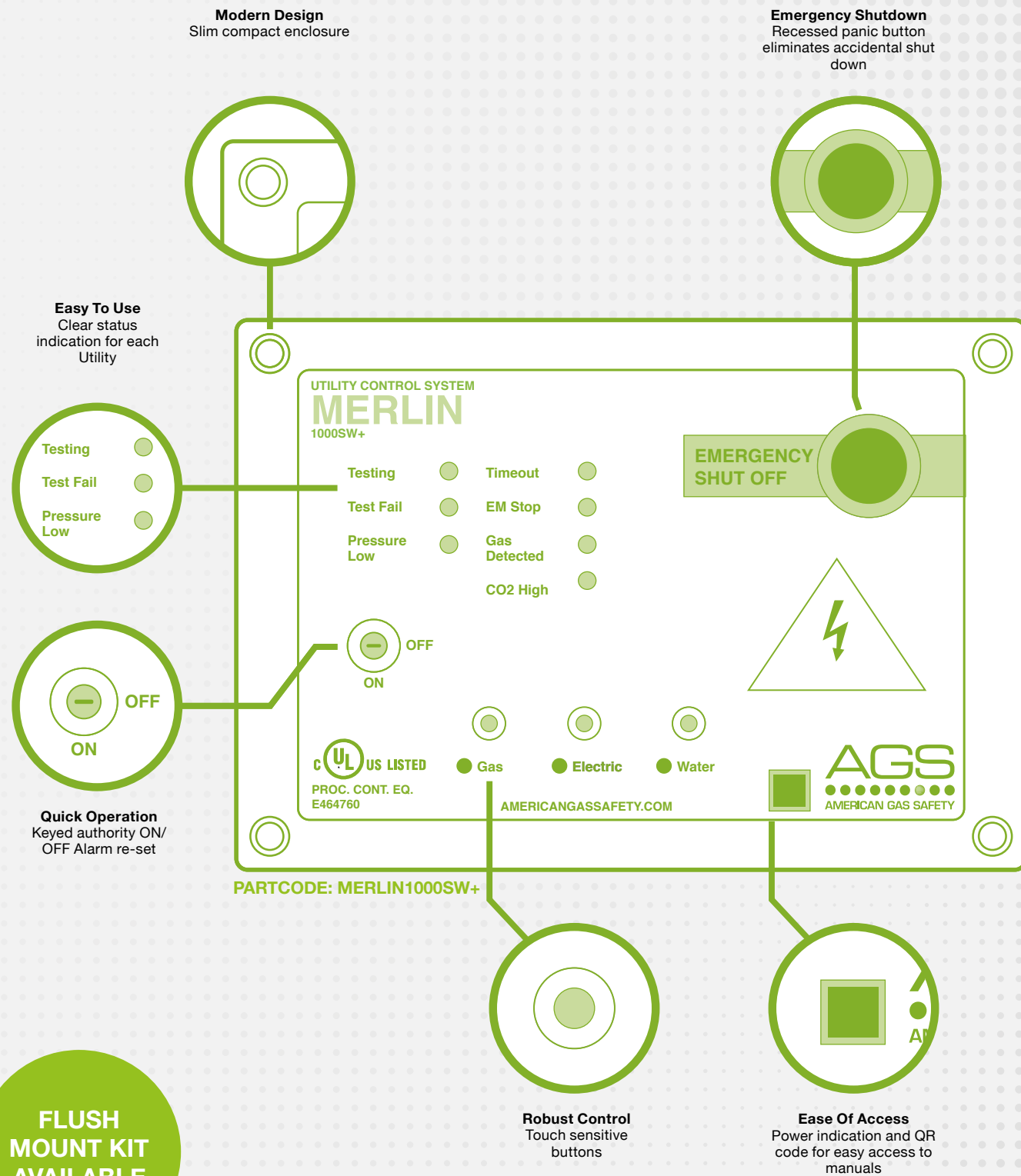
120VAC
GAS SOLENOID VALVE

GAS LINE

GAS LINE

AGSPT
GAS PRESSURE
PROVING TRANSMITTER

WHEN USING GAS IN A CLASSROOM ENVIRONMENT PROVIDE MORE THAN JUST ON OFF CONTROL. THE MERLIN RANGE OF PRESSURE PROVING PANELS PROVIDE SAFE START UP ALONG WITH LOW PRESSURE AND OVER PRESSURE SAFETY.



**FLUSH
MOUNT KIT
AVAILABLE**

Compact, robust and reliable utility controllers for wall or flush mounting

Intuitive and accessible design makes the AGS range easy to specify, easy to install and very user friendly.

Modern components compliment years of industry experience to provide a total solution to classroom safety.

Multiple inputs available to adapt the operation of the controllers, including fire alarm shut down and BMS communications.

- ✓ Modern adaptable design to meet all of your requirements
- ✓ Unique safe start technology incorporating gas pressure proving
- ✓ Incredibly easy to use & install
- ✓ Adjustable time-out facility
- ✓ Industrial Grade Polycarbonate Material to withstand daily use
- ✓ UL Listed 61010 to laboratory spaces

Choose the right controller for your application



MASTER CONTROL PANEL

- ✓ Three models available for single, double or triple outputs
- ✓ Key switch authority - ON/OFF
- ✓ Available in flush or wall mounted
- ✓ Gas detection - explosive gas & carbon dioxide monitoring
- ✓ Adaptable switched outputs can be used to shut off electrical outlets and purge fans



Integral Emergency Stop



Isolates gas, water and electric



Fully UL Certified and listed to UL61010 for laboratory spaces



Fire Alarm Input & BMS Output



Gas proving feature*



BUILD A SYSTEM

- ✓ Smaller unit for Prep room or Teacher Desk Control
- ✓ Key switch authority - ON/OFF
- ✓ Available in flush or wall mounted
- ✓ Can be used to shutdown science laboratory utilities in emergency as well as the prep room/ teachers desk supplies



Single Zone Utility Output



110-120V 3amp line voltage output for each utility

AGSFS1 FAN CONTROLLER

- ✓ Selectable power off delay to allow residual fumes to dissipate. 20, 40, 60 minutes. Suitable for single and dual speed fans



Manual fan on and off



Purge in Alarm



EMERGENCY SHUTDOWN BUTTONS

- ✓ ADA compliant
- ✓ Shield protects against accidental shutdown
- ✓ Various color & button types available - typically twist release or key lock rest
- ✓ UL Listed

Take control of your utilities & ancillaries



AGS GAS SOLENOID VALVES

- ✓ Sizes available from 3/8" through 3" NPT. Other sizes available upon request
- ✓ Normally closed valves offer safety shut off with fast-open, fast-close operation
- ✓ Rugged design and construction
- ✓ Die cast aluminum body
- ✓ Approvals: UL, AGA, CGA, ANSI Z21.21-CGA6.5, CAN/CGA-6.5-M89CAN/CGA-3.9-M87



AGS WATER SOLENOID VALVES

- ✓ Sizes available from 1/2" through 1 1/2" NPT. Other sizes available upon request
- ✓ Normally closed valves offer safety shut off with fast-open, fast-close operation
- ✓ Rugged design and construction
- ✓ NSF Approved lead free brass body

AGS VALVE ENCLOSURES

- ✓ Available as a flush mount, wall mount or semi-recessed
- ✓ A wide range of sizes and practical accessories, lockable enclosure to reduce cost of project
- ✓ Approvals: UL 508 Type 3R, 4 and 12 / CSA Type 3R, 4 and 12



Complies with: NEMA Type 3R, 4 and 12



AGS ELECTRICAL CONTACTORS

- ✓ Various models available
- ✓ Most commonly used to control classroom bench electrics



Approvals: UL, GOST, CSA & CCC

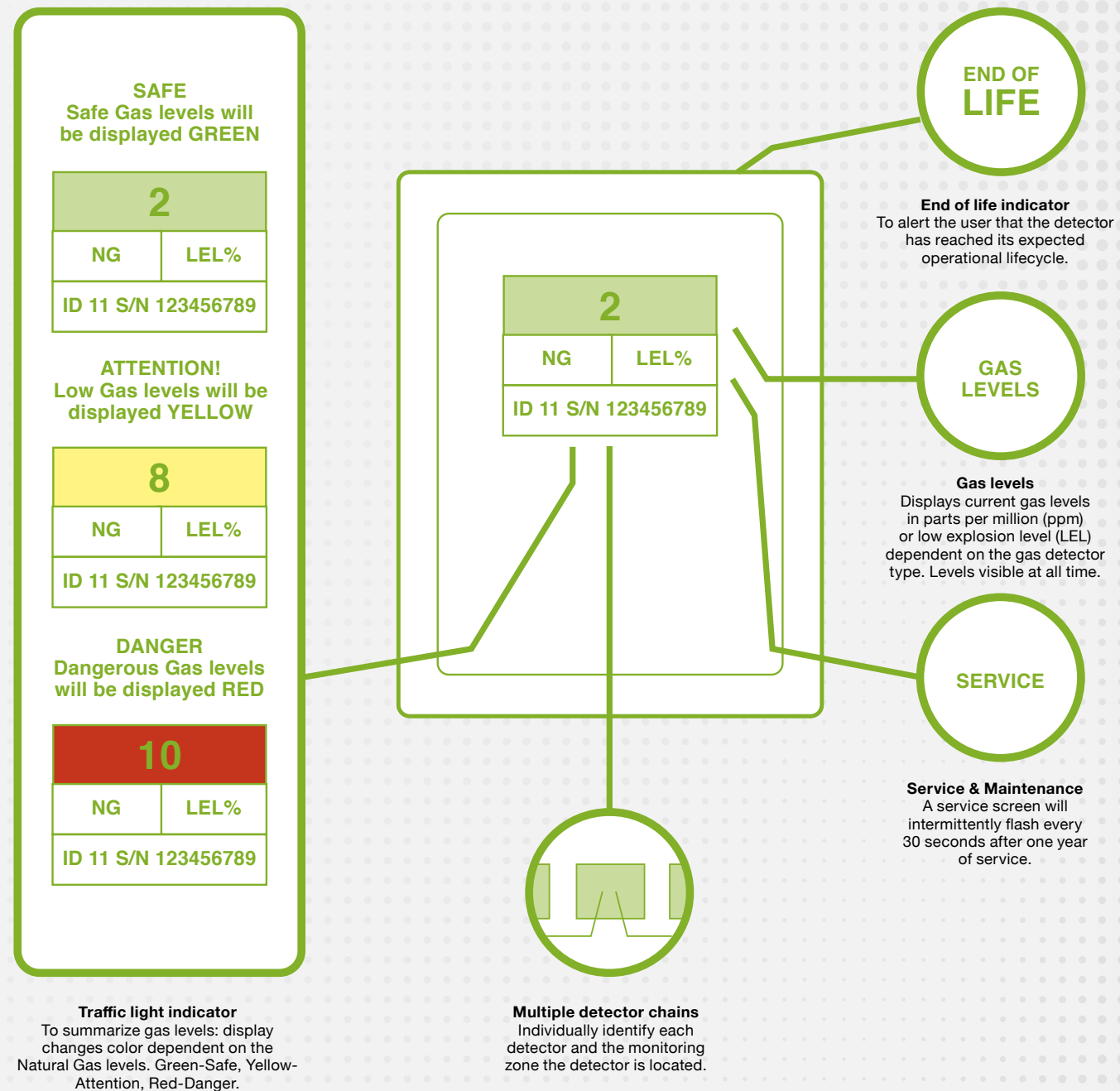
AGS ELECTRICAL CONTACTOR ENCLOSURES

- ✓ Designed to house electrical contactors - A wide range of sizes available
- ✓ Hinged cover with latch provides easy access during installation and maintenance
- ✓ Approvals: UL 50 Type 1, CSA Type 1



Complies with: NEMA Type 1, IEC 60529, IP20





Pre-calibrated and compact gas detectors

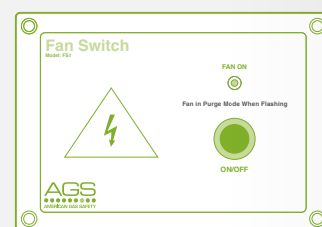
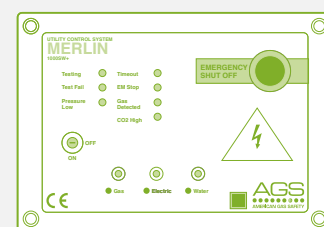
The TFT range of AGS detectors work in combination with the AGS Merlin range of Utility Controllers and features semiconductor type sensors for commercial indoor applications.

Compact, modern, digital design makes the units aesthetically pleasing and easy to install.

- ✓ No calibration required - pre-calibrated in the factory
- ✓ Power supply 12-24V AC/DC (Supplied from AGS Merlin utility controller)
- ✓ Various outputs to work with control panels



Merlin1000SW+
Gas, Electric & Water
Control Behind
teachers desk.

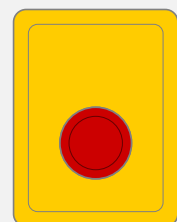


AGSFS1
Fan Controller Behind
teachers desk.

AGSCON4P20ANO / AGSCONENC
Electrical contactor(s) in an AGSCONENC
metal enclosure underneath teachers desk.

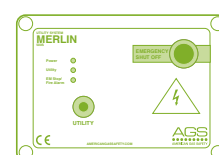
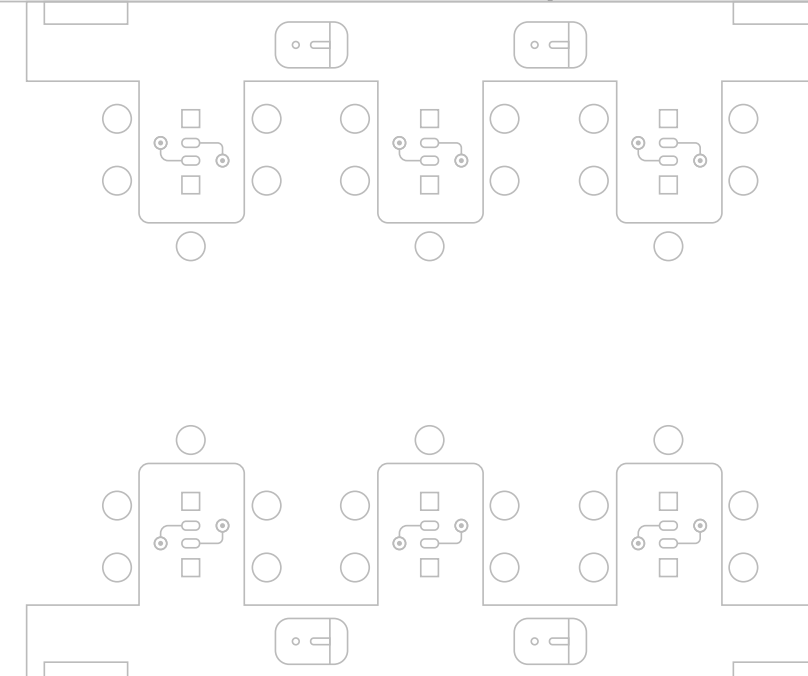
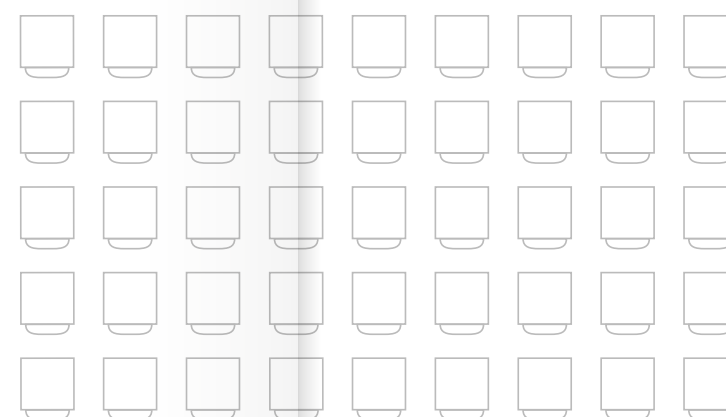


AGSNGTFT
Fuel Gas Sensor 12inch
from ceiling.



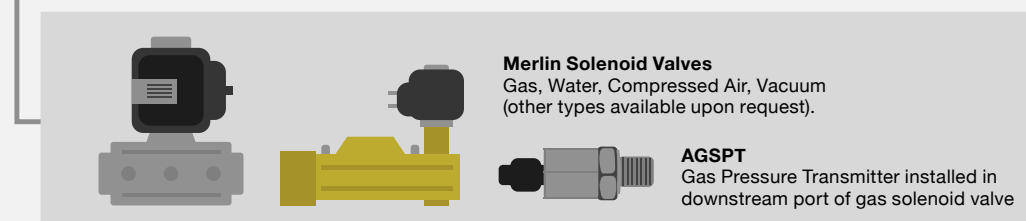
AGSEPOTW
Emergency shutdown
button next to main exit.

EMERGENCY
SHUT OFF



PREP ROOM UTILITY CONTROL PANEL

Merlin 500s
Provide individual control
over teachers demo desk
or prep room utilities



CEILING SPACE WITH GAS & WATER LINES

Merlin Solenoid Valves
Gas, Water, Compressed Air, Vacuum
(other types available upon request).

AGSPT
Gas Pressure Transmitter installed in
downstream port of gas solenoid valve

Take precautionary action in your school project

This diagram illustrates an
example room layout for
science laboratory control.

Introducing the MERLIN SI range

NOT USING GAS? But still need the authority control and adaptable outputs of the Merlin range.

The adaptable range by American Gas Safety can be used to control all types of utilities, such as electric, water, compressed air, vacuum, ventilation & many more.

Available as a single, dual or triple output utility controller the Si range is the perfect solution for key-lock authority control over your chosen utilities.

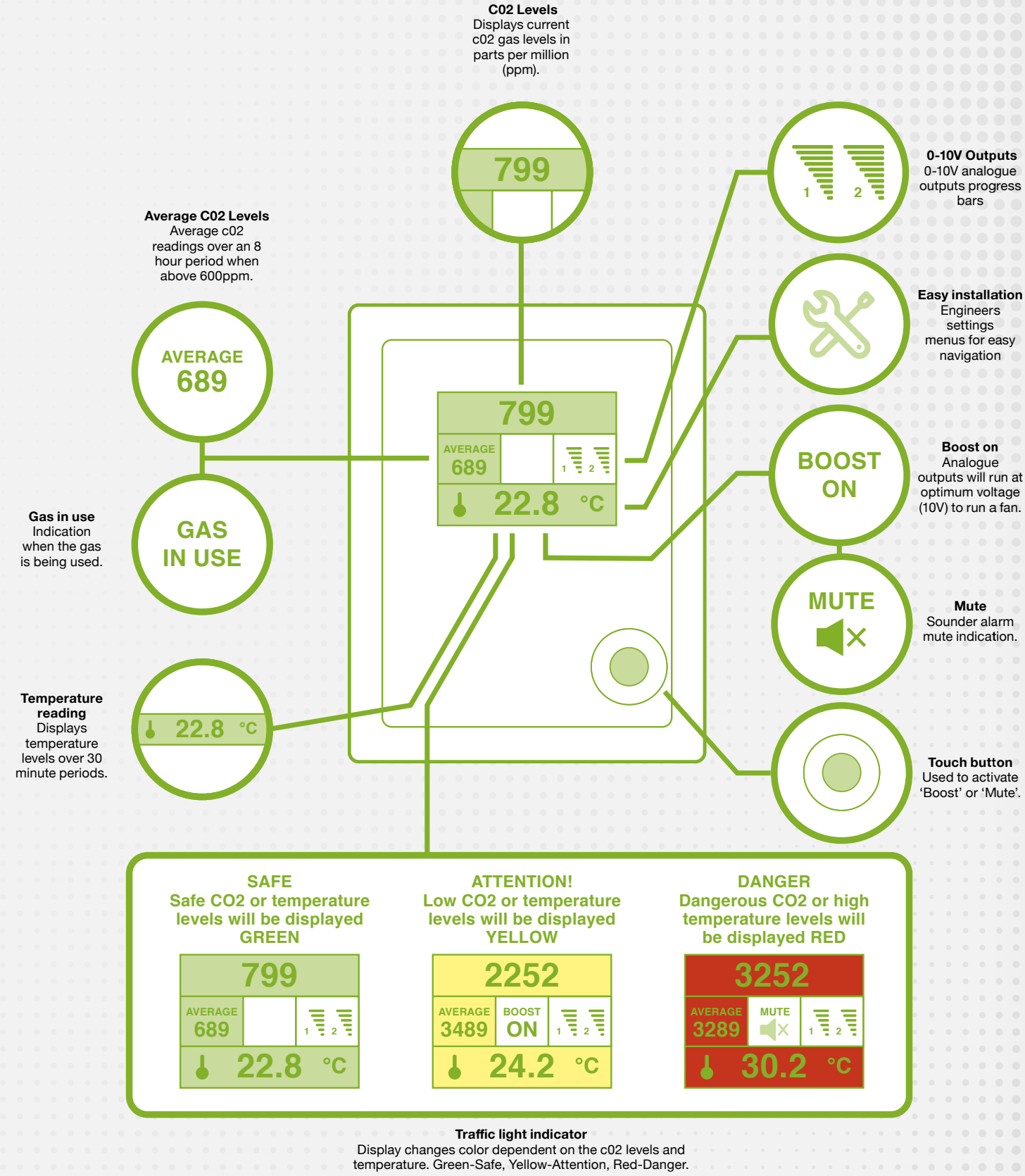
The Si range is identical to the 1000S range, with all features included aside from the gas pressure proving.

The Merlin utility controller has the functionality to control 120 volt or 24 utilities, as well as communicate with BMS systems & fire alarm panels to indicate panel status.

The Merlin SI range can work in conjunction with any AGS gas detector such as carbon dioxide or carbon monoxide sensors. The controller also features a built in "timeout" facility which will automatically shut off the connected utility at the end of a specific time period, this time period can be adjusted to 2, 5, 8 hours or can be overridden if required.

UTILITY CONTROLLER WITHOUT GAS





Merlin CO2 TFT Carbon Dioxide monitor

A simple efficient and reliable Carbon Dioxide and temperature monitor.

- ✓ 120V AC or 12-24V AC/DC
- ✓ Modern design with a slim and compact enclosure
- ✓ Can be used to automatically shut down utilities or drive ventilation depending on CO2 or temperature levels
- ✓ Pre alarm & alarm relay outputs
- ✓ Alarm threshold can be changed depending on the install environment



Mounting your controller



WALL MOUNTING

Each utility controller by American Gas Safety have been designed to be wall mounted via four bolts located at each corner by a socket wrench provided.

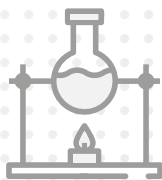
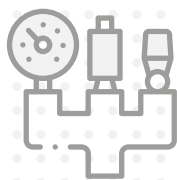


FLUSH MOUNTING

The AGSMK Flush Mount bracket is similar to an electrical rough in box. It allows for the electrical conduit to be brought to a space in the wall prior to the installation of the Merlin Control Panel.



SCAN WITH YOUR SMART PHONE
TO VIEW OUR FULL LAB
RANGE ONLINE



For our full range of products & services visit us at
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