BOILER/MECHANICAL ROOM GAS SAFETY CONTROL

c **UL** US

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

AGS

AMERICAN GAS SAFETY

Modern designs developed by experts in gas safety

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

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

GAS SAFETY IN EVERY ENVIRONMENT

Key feature icons

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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.
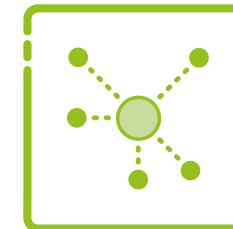
GAS ISOLATION

UP TO 8/16 EXTERNAL DETECTORS

UNIQUE GAS PRESSURE PROVING

ETHERNET/LAN CONNECTIVITY

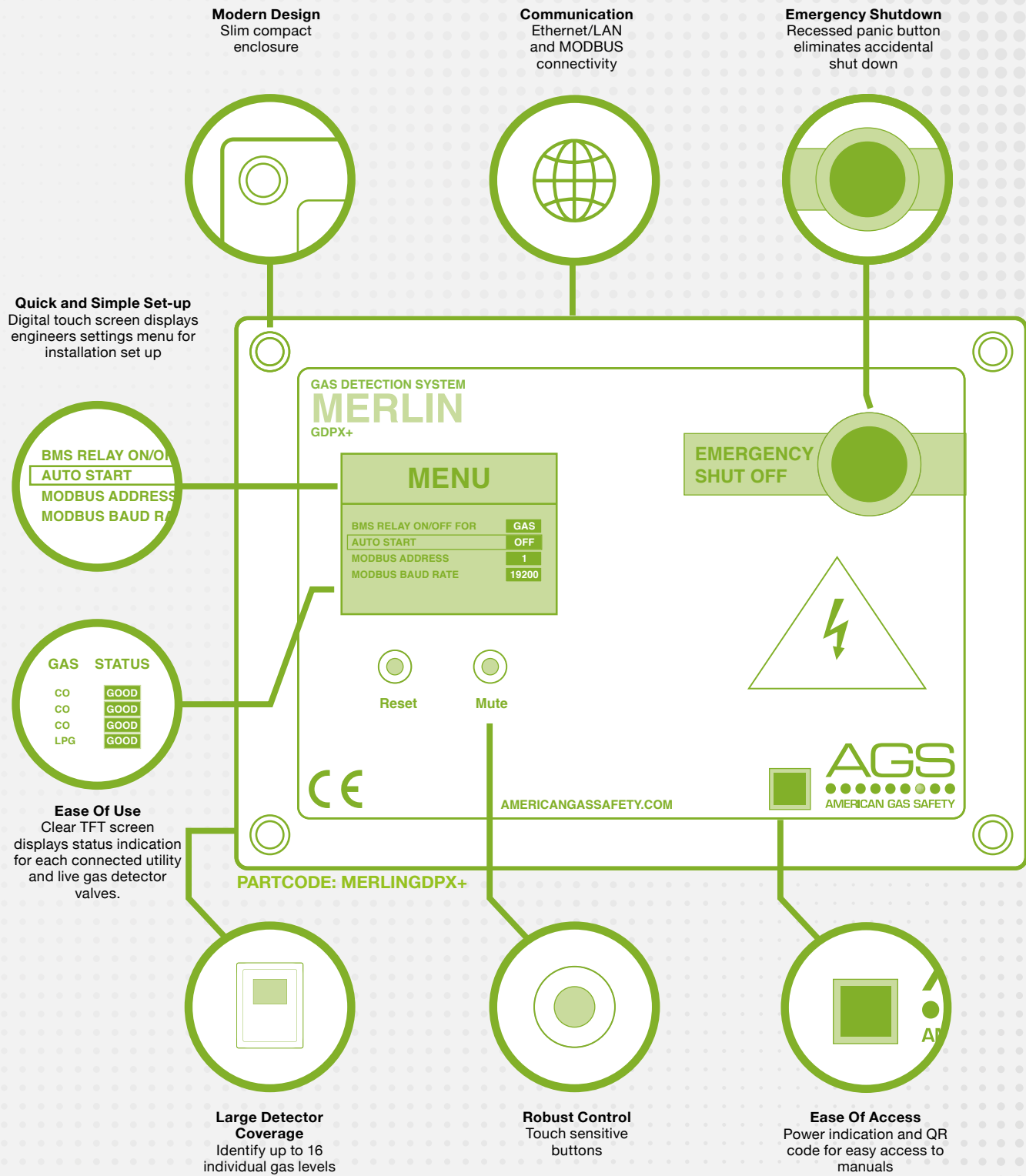**MODBUS COMPATIBILITY**

FIRE ALARM INPUT & BAS/BMS OUTPUT

EMERGENCY SHUTDOWN

FIRE PANEL INTEGRATION

BAS INTEGRATION

UL APPROVED RANGE

Modern Design
Slim compact enclosure

Communication
Ethernet/LAN and MODBUS connectivity

Emergency Shutdown
Recessed panic button eliminates accidental shut down

Quick and Simple Set-up
Digital touch screen displays engineers settings menu for installation set up

BMS RELAY ON/O
AUTO START
MODBUS ADDRESS
MODBUS BAUD R

GAS DETECTION SYSTEM
MERLIN
GDPX+

MENU

BMS RELAY ON/OFF FOR	GAS
AUTO START	OFF
MODBUS ADDRESS	1
MODBUS BAUD RATE	19200

EMERGENCY
SHUT OFF

Reset   Mute

GAS	STATUS
CO	GOOD
CO	GOOD
CO	GOOD
LPG	GOOD

Ease Of Use
Clear TFT screen displays status indication for each connected utility and live gas detector valves.

CE

AMERICANGASSAFETY.COM

AGS
AMERICAN GAS SAFETY

PARTCODE: MERLINGDPX+

Large Detector Coverage
Identify up to 16 individual gas levels

Robust Control
Touch sensitive buttons

Ease Of Access
Power indication and QR code for easy access to manuals

Protecting your building and life
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According to federal data, incidents related to natural gas pipelines are not uncommon, occurring nearly every other day, causing millions of dollars in property damage and several deaths each year.

American Gas Safety develop a complete line of high quality modern gas safety systems which are UL certified and designed to meet all the relevant NFPA, ICC codes and standards helping your design and building be code compliant .

www.phmsa.dot.gov

PERSHING SQUARE

Encore
BOSTON HARBOR

AMERICA'S
TEST KITCHEN

More than just manual shut off in a mechanical room
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The AGS solutions are already protecting thousands of properties across the U.S.

Modern components compliment years of industry experience to provide a tidy solution to boiler/mechanical room safety. Multiple inputs available to adapt the operation of the controllers, including fire alarm shut down, BMS/BAS, modbus & Internet communications.
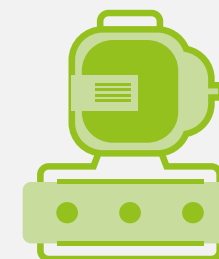
...DON'T WAIT FOR SOMEONE TO REALIZE THERE IS A FAULT!

DETECT

ALARM

ISOLATE

Choose the best solution for your application

EMERGENCY SHUTDOWN

This is your basic CSD-1 Safety set up in a mechanical room to isolate gas or power to the boilers.

ADA Compliant
& UL Listed

EMERGENCY SHUTDOWN WITH GAS DETECTION

For rooms smaller than a 25 yard radius, add a Mini Merlin to the emergency panic button circuit to provide combustible gas & carbon monoxide monitoring

Compact and affordable protection.

ADA Compliant
& UL Listed

Complete space protection

MERLIN GDP2X
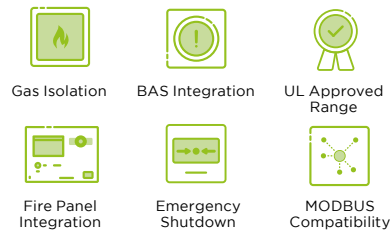
Add multiple remote sensors and additional inputs

✔ Designed for use in large boiler rooms

✔ Single 120V output de-energizes in alarm

✔ Inputs for heat detectors, emergency panic buttons, fire alarms & external detectors

✔ Intuitive PCB speeds up install

✔ Covered by American Gas Safety LLC 3 year warranty

Gas Isolation   BAS Integration   UL Approved Range

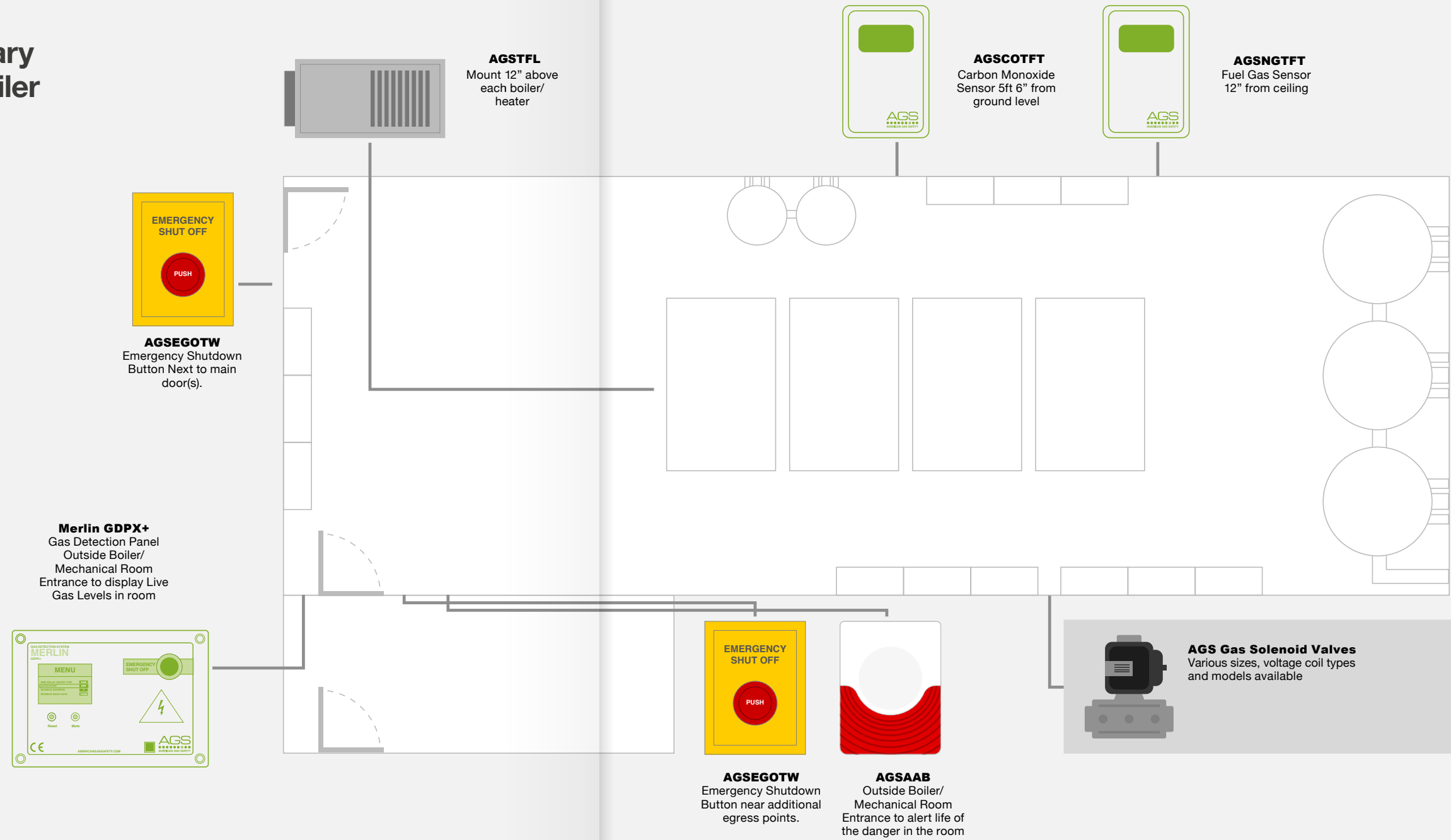Fire Panel Integration   Emergency Shutdown
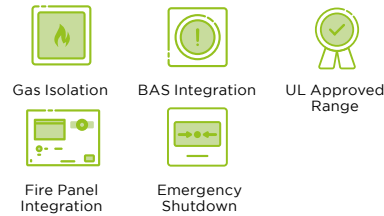
MERLIN GDPX+

Add MODBUS communications

✔ Designed for use in large boiler rooms

✔ Dual 120V output de-energizes in alarm

✔ Inputs for heat detectors, emergency panic buttons, fire alarms & external detectors

✔ Intuitive PCB speeds up install
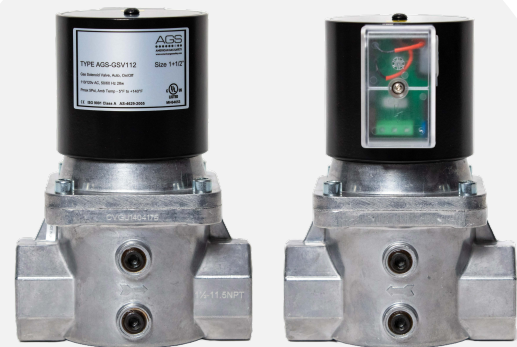
✔ Covered by American Gas Safety LLC 3 year warranty

Gas Isolation   BAS Integration   UL Approved Range

Fire Panel Integration   Emergency Shutdown   MODBUS Compatibility

Take precautionary action in your boiler room

This diagram illustrates an example room layout for a boiler room.

AGSTFL
Mount 12" above each boiler/ heater

AGSCOTFT
Carbon Monoxide Sensor 5ft 6" from ground level

AGSNGTFT
Fuel Gas Sensor 12" from ceiling

EMERGENCY SHUT OFF
PUSH

AGSEGOTW
Emergency Shutdown Button Next to main door(s).

Merlin GDPX+
Gas Detection Panel Outside Boiler/ Mechanical Room Entrance to display Live Gas Levels in room

GAS DETECTION SYSTEM
MERLIN
GDPX+
MENU
EMERGENCY SHUT OFF
AGS
CE

EMERGENCY SHUT OFF
PUSH

AGSEGOTW
Emergency Shutdown Button near additional egress points.

AGSAAB
Outside Boiler/ Mechanical Room Entrance to alert life of the danger in the room

AGS Gas Solenoid Valves
Various sizes, voltage coil types and models available

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 ELECTRICAL CONTACTORS

✔ Various models available

✔ Most commonly used to control boilers or receptacles

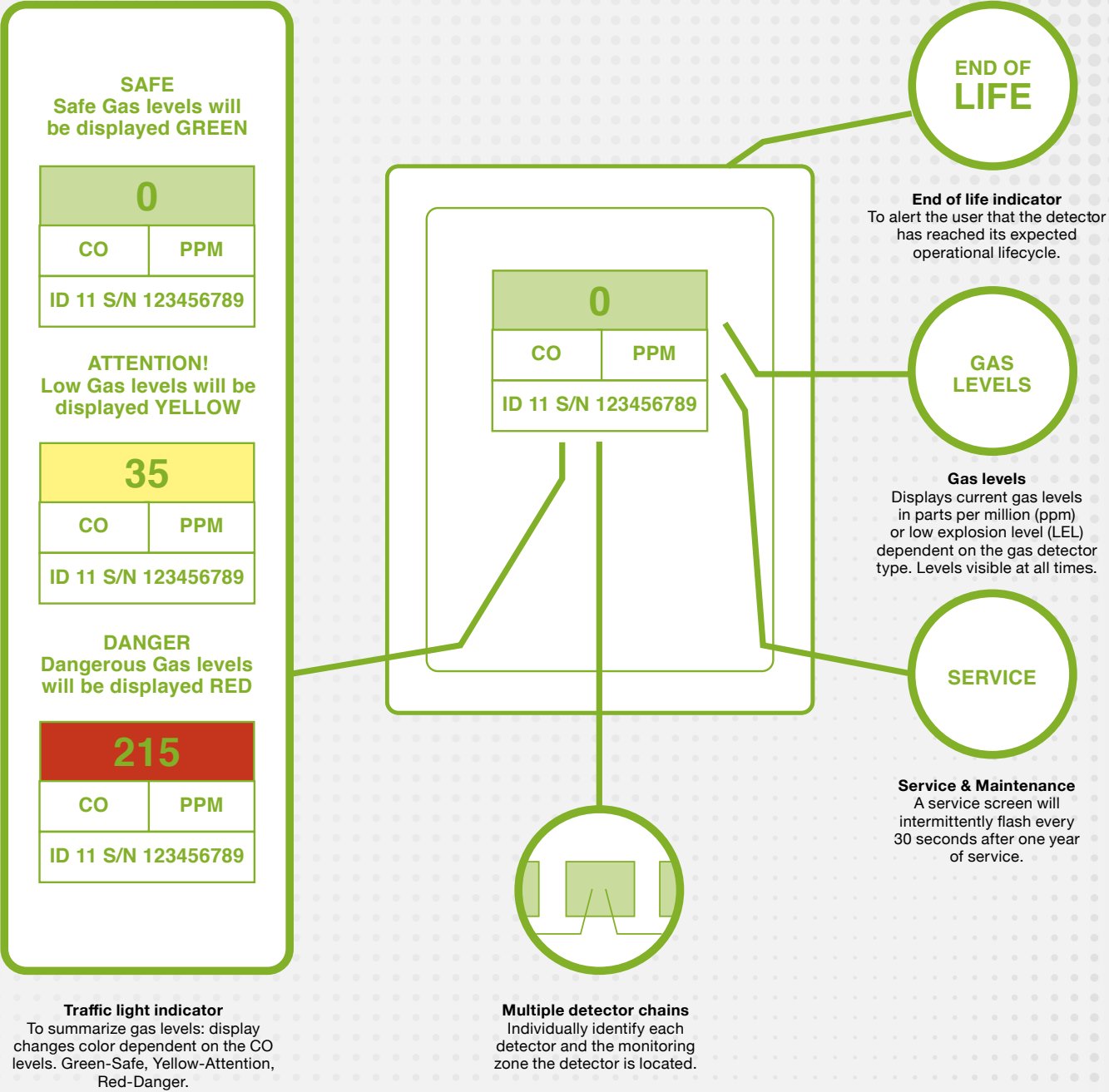✔ Approvals: UL, GOST, CSA & CCC

AGS AUDIBLE ALARM BEACON

✔ 12-24V powered from Merlin controller

✔ Alarm/siren offers 32 selectable sounds and volume control

✔ 8 flash patterns

✔ Designed to meet the requirements of IP54

AGS HEAT DETECTOR

✔ Cast Aluminum Housing

✔ Replaceable Thermal Fuse

✔ Mounted above the boiler(s)

✔ 162°F switching point

SAFE
Safe Gas levels will be displayed GREEN

0	
CO	PPM
ID 11 S/N 123456789	

ATTENTION!
Low Gas levels will be displayed YELLOW

35	
CO	PPM
ID 11 S/N 123456789	

DANGER
Dangerous Gas levels will be displayed RED

215	
CO	PPM
ID 11 S/N 123456789	

Traffic light indicator
To summarize gas levels: display changes color dependent on the CO levels. Green-Safe, Yellow-Attention, Red-Danger.

0	
CO	PPM
ID 11 S/N 123456789	

Multiple detector chains
Individually identify each detector and the monitoring zone the detector is located.

END OF LIFE

End of life indicator
To alert the user that the detector has reached its expected operational lifecycle.

GAS LEVELS

Gas levels
Displays current gas levels in parts per million (ppm) or low explosion level (LEL) dependent on the gas detector type. Levels visible at all times.

SERVICE

Service & Maintenance
A service screen will intermittently flash every 30 seconds after one year of service.

Pre-calibrated and compact gas detectors

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Take precautionary action in your boiler / mechanical room project.
Every year, at least 430 people die in the U.S. from accidental CO poisoning. Approximately 50,000 people in the U.S. visit the emergency department each year due to accidental CO poisoning. Adding a CO detector to your design can help protect life from the silent killer Carbon Monoxide.

Installing a combustible gas detector protects life from potential gas explosion. Installing a carbon monoxide detector indicates a problem with a flue or exhaust fan(s).

Other detectors are available upon request for fuel gas or specialist gases.

✔ No calibration required - pre-calibrated in the factory

✔ Power supply 12-24v AC/DC from Merlin controller
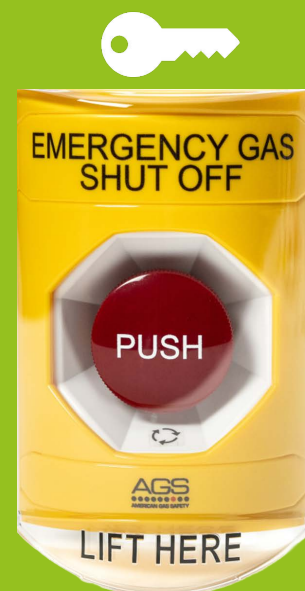
✔ Various outputs to work with control panels

Emergency panic buttons

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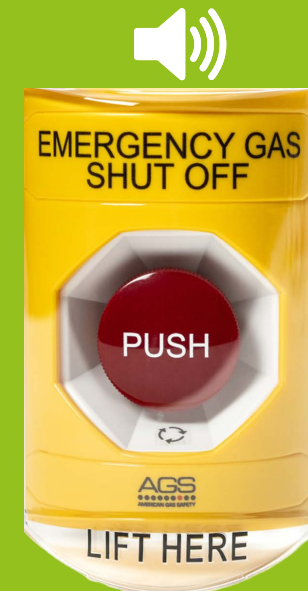Isolate gas or power to the boilers with a panic button that can be customized to stand out in your space.

AGSEGOTW

Twist release

AGSEGOKL

Key release

AGSEGOKLA

Key release with audible alarm

WE HAVE VARIOUS MODELS & COLORS AVAILABLE WITH CUSTOM TEXT OPTIONS

Mounting your equipment

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.
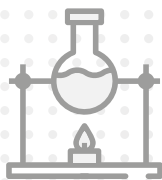
Customize your needs for any environment

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LABORATORY UTILITY
CONTROLLERS
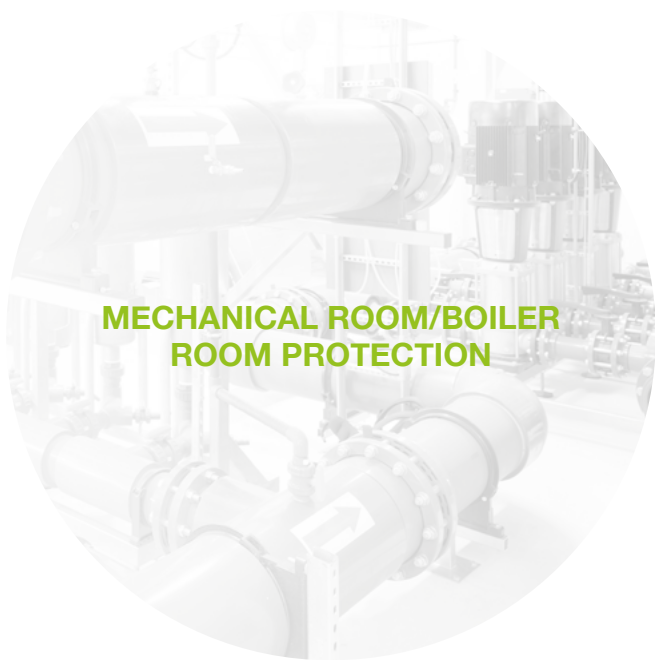
MECHANICAL ROOM/BOILER
ROOM PROTECTION
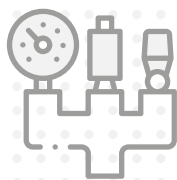
KITCHEN
INTERLOCK

SCAN WITH YOUR SMART PHONE
TO VIEW OUR FULL BOILER
ROOM RANGE ONLINE

For our full range of products & services visit us at

WWW.AMERICANGASSAFETY.COM