



M2G System

M2G Unit Specification

M2G System	Model M2G
Power Requirements	220 V ac, 60mA
Relay Switching Capacity	8Amps at 220Volts ac
Fuse Rating	Buss Fuse 1.6A 250V
Dimensions	174mm (W) x 120 (H) x 72mm (D)
Sensors	Digital Thermometer
Sensor Range	0 to +125 degrees Centigrade
Weight	1.1Kg
Case	Metal



Full weather corrected case studies and testimonials available on request. [E info@gem.ie](mailto:info@gem.ie)

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Savings

Finding ways to reduce energy consumption and the associated cost, in a volatile commercial utility market is high on the agenda of every organisation. Options open to achieving this range from switching your gas supplier, capital replacement programs or implementation of peripheral energy efficiency measures in the work place.

M2G is a cost effective, highly efficient solution for reducing oil & gas consumption for heating systems. A 10% savings guarantee comes with every M2G software installation.*

Going green does not mean going into the red with M2G System.

Benefits

Savings guarantee	10%
Savings range	10% - 35%
Increased boiler lifecycle	
Reduced burner electrical consumption	
Reduced Co2 emissions	

* terms & conditions apply

Intelligence

M2G is an advanced, intelligent load compensating and sequence control for boiler systems. The M2G software checks boiler performance at all levels of output and recycles the heat generated from the M2G optimum control strategy to the next chunk of boiler activity. When the building demands heat, it is there. When the loading demand drops off the output is precisely measured and this is where huge savings are made.

BEMS

M2G integrates seamlessly with all Building Energy Management Systems (BEMS) including Cylon, Trend etc

The M2G boiler control strategy completely upholds the flow & return common header temperatures required by the BEMS. As a result there are no changes whatsoever to comfort levels within the building despite the significant savings achieved.

CHP

Combined Heat & Power is a favoured option for many businesses. M2G system is the perfect fit for CHP technology. During the CHP daily scheduled hours M2G inhibits any unnecessary boiler cycling in and around the CHP target temperature zone. In the night time when the CHP is inactive and the loading demand drops off the boilers then significant savings can be made by a precisely measured and slower boiler cycle M2G strategy.

Flexible

M2G software is designed to be used in a wide variety of commercial applications that consume Natural gas, LP gas, Class C oil, Class D oil, Class G oil, Bio-fuel and Wood-chip/pellet.

M2G has an application for a many boiler types including forced draught, atmospheric, condensing, atmospheric modulating systems and wood-chip/ pellet boilers.

Installation

With an average installation time of just 120 minutes for each control there is no disruption to the heating system or to production processes.

M2G software is fully automatic with the savings immediately achieved the moment of installation. There is no requirement for long surveys or data collection. There is no maintenance, calibration or readjustment required throughout the lifetime of the system.

Pioneering

European patent pending. M2G concentrates on boiler system efficiency. The M2G digital sensing probes monitor flow and return water temperatures every second across each boiler on site. M2G builds its own bank of information which it references as a template for optimising the boiler/burner system.

M2G software continuously readjusts its referencing strategy to take account of system life-cycle decline or maintenance improvements.

Quality

The M2G system has passed a stringent qualifying process for inclusion on the Energy Technology List .

The ETL logo is a registered trademark and its use is restricted to products that meet energy efficiency criteria. The ECA website at www.eca.gov.uk clearly confirms that the product carrying the symbol has proven energy-efficiency performance.

M2G is CE registered. Every installed M2G System comes with a **10**-year warranty.