

STAND ALONE TRANSMITTER

Gas Detection for Life

M2-Series



Features

- Non-intrusive calibration via magnetic wand
- 4-20 mA & digital Modbus outputs standard
- Direct digital readout on backlit LCD
- Operates independent of a controller
- 2 fully programmable alarm relays & fail relay
- Explosion proof housing
- Available for LEL, H₂S, CO, O₂ and H₂ specific
- Patented water repellent sensor coating

Applications

- Petrochemical plants
- Refineries
- Offshore drilling platforms
- Water & wastewater treatment plants
- Pulp & paper mills
- Manufacturing facilities
- HVAC
- Gas, telephone, & electric utilities

The M2 is a state-of-the-art transmitter that can operate as an independent stand-alone system or as part of a system connected with an analog or digital signal to virtually any controller or PLC. The M2 series detects LEL combustibles, oxygen, hydrogen sulfide or carbon monoxide. It utilizes a magnetic wand technique for performing non-intrusive calibration. The M2 provides an automatic zero drift correction feature, which results in more stable readings and reduces the need for adjustments due to sensor aging.

The housing of the M2 does not need to be opened for zeroing or calibration, making it unnecessary to declassify the area for routine maintenance. It is designed so that a complete field calibration can be performed by one person. The stainless steel flame arrestor housing that covers the sensor (LEL, H₂S or CO) is water repellent with a special patented water resistant coating.

The transmitter provides a 4-20 mA output in addition to a Modbus digital output. It also has two levels of alarms with relays and a fail alarm. A digital display of the gas concentration, as well as alarm and status lights, can be viewed through the front window. The M2 represents the latest leading edge technology in sensor transmitters today.

Technical Specifications:

Sampling method	Diffusion	Alarm Settings	Fully programmable alarm setpoints
Supply Voltage	19 VDC to 30 VDC	Relay	5 Amp for each alarm
Operating Conditions	-20 to 50°C, 5 – 95% RH	Dimensions in mm	215 (H) x 132 (W) x 114 (D)
Display and Controls	Alphanumeric display with backlight. Magnet used for calibration functions (no need to open).		
Enclosure Rating	NEMA 4, explosion proof (UL), watertight, cast aluminium with o-ring seal and epoxy powder coating		
Analog Output	4-20mA, Into 500 ohms impedance max, corresponding to 0 – full scale		
Digital Output	Modbus RTU standard, fully configurable, 2-wire RS-485, 1200 to 19.2 k baud		

Detectable Gases:

Sensors	LEL	O ₂	H ₂ S	CO
Type	Catalytic Combustion	Electrochemical-Calvanic	Electrochemical	Electrochemical
Measuring ranges	0-100% LEL	0-25% Volume	0-100 ppm	0-300 ppm

AUSTGAS Instrument Services Pty Ltd

13 Greer St
Bonnyrigg Heights NSW 2177
AUSTRALIA

Phone: +61 2 9823 2551
Fax: +61 2 9822 9284
Mobile: +61 451 304 884
Email: austgas@hotmail.com



RIKEN KEIKI