TECHNICAL DATASHEET

FLAMMABLE GAS SENSOR / TRANSMITTER

Series 65-6551

GasGuard Methane Monitoring

Description

Ampcontrol's GasGuard Flammable Gas Sensor / Transmitter is supplied complete with an amplifier and integrated Liquid Crystal Display.

The Gas sensor is housed in a cast stainless steel enclosure, is certified Intrinsically Safe and is suitable for use in a Zone 0 hazardous area. A remote head version with up to ten metres of cable is also available for use on mobile machinery such as roof bolters and continuous miners.

The GasGuard Flammable Gas Sensor / Transmitter, operates on the catalytic combustible gas detection principle. Combustible gases, once in contact with the heated catalytic sensor cause a small shift in sensor resistance proportional to the concentration of combustible gas. The sensor provides a linear current output proportional to gas concentration.

Features

- Economical Fixed Gas Sensor / Transmitter
- Performance Tested to Australian Standards
- Rugged Construction
- Reliable
- Certified to Intrinsically Safe – Ex ia
- LCD Display
- Non-Intrusive Closed Case Calibration

Dimensions

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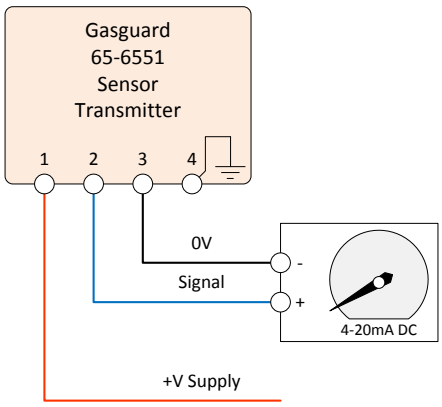
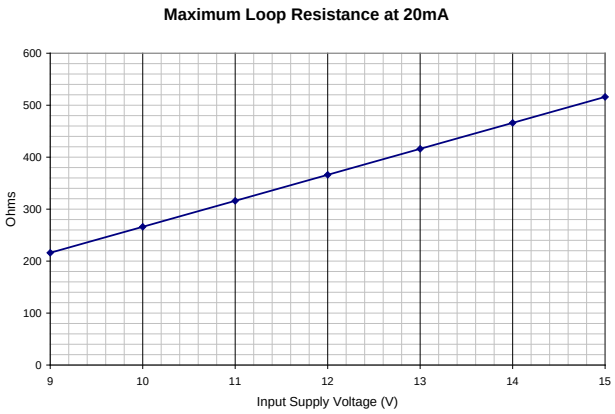
Connection Diagram



Loop Resistance Graph



Specifications	
Electrical	
Supply Voltage	10 – 16.5 VDC
Analogue Output	4-20mA DC
Maximum Current	100mA
Mechanical and Environment	
Humidity Range	0-95% RH, non-condensing
Temperature Range	-20˚C to + 40˚C
Storage Temperature	+3˚C to + 70˚C
Housing Material	Cast Stainless Steel
Ingress Protection	Housing: IP66 Gas Inlet Port: IP66
Weight	3.8 kg (approximately)
Cable Gland Entry Size	8 to 13mm O.D.
Sensor	
Detection Method	Catalytic Combustible Gas Detection Principle
Calibrated Range	0 to 5% Methane (CH_4)
Absolute Maximum Gas	6%
Accuracy	<± 5% FSD
Long Term Zero Drift	<± 0.5% FSD per month
Long Term Sensitivity Drift	<± 1% FSD per month
Repeatability	<± 1% of Reading
Sensing Element Life	>2 Years In Clean Air
Resolution	0.01% Methane (CH_4)
Certification	
ANZEx	ANZEx 03.4024X – Ex ia s Zone 0 I IP66
IECEx	IECEx TSA 06.0044X – Ex ia I IP66
DPI	MDR 086759 GD (Design Registration)
Ordering Information	
Part Number	**Description**
106198	CH4 Detector 0-5% 4-20mA
142977	CH4 Detector 0-5% 4-20mA 1.1m sensor tail
166352	CH4 Detector 0-5% 4-20mA 1.5m sensor tail
115217	CH4 Detector 0-5% 4-20mA 5m sensor tail
101768	CH4 Detector 0-5% 4-20mA 10m sensor tail
173981	Calibration cup for catalytic sensors
140225	Calibration magnetic tool
105703	Allen key
Find Out More	
For more information on this product, contact Ampcontrol Customer Service on +61 1300 267 373 or *customerservice@ampcontrolgroup.com* or visit the Ampcontrol website: www.ampcontrolgroup.com	

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