Series 3000 MkII and MkIII

Honeywell





2-wire loop powered toxic and Oxygen gas detector for use in potentially explosive atmospheres - explosion proof and intrinsically safe versions

Series 3000 MkII and MkIII





Reliable detection

- Proven electrochemical sensing technology
- Uses Surecell™ electrochemical cells, ideal for hot and humid environments
- Long-life sensing elements
- Patented 'Reflex' sensing element verification diagnostics

Reduced installation costs

- Integral surface mounting lugs
- Optional horizontal or vertical pipe mounting bracket
- Flameproof transmitter allows field wiring to be run along with other non-IS instruments
- Plug-in sensor removes wiring
- Can be retrofitted in place of Series 2000

Reduced commissioning costs

- Sensor recognition feature auto configures transmitter
- Non-intrusive configuration
- · Plug and play factory configured sensors

Reduced maintenance costs

- IS sensor connection permits hot swap, reducing downtime
- User programmable calibration frequency
- · Integral fault diagnostic software
- Menu/icon driven calibration procedure

Regulatory compliance

- European (ATEX)
- US (UL)
- Canadian (c-UL)
- South America (Inmetro)
- International (IECEx)

Range of optional accessories

- Remote sensor mounting kit
- Duct mounting kit (for H₂, CO and H₂S only)
- Calibration cup to apply test gas
- Collecting cone

Typical applications

- Exploration and drilling platform
- Production platforms
- Onshore oil and gas terminals
- · Refineries and chemical plants
- · Power plants
- Waste water facilities
- Utilities

The Series 3000 range of transmitters provide comprehensive monitoring of toxic and Oxygen gas hazards in potentially explosive atmospheres. Suitable for mounting both indoors and out, they are available in two versions and offer excellent versatility. The MkII is contained in a flameproof housing, has an intrinsically safe sensor connection and is for use in predominantly Zone 1 applications. However with the use of the optional remote mounting kit the sensor of the MkII can be mounted in a Zone 0 environment. The MkIII is for use with a separate suitable IS barrier allowing the complete transmitter to be used in Zone 0 applications.

These low powered gas detectors all feature a loop powered 4-20 mA connection, making them ideal for both new and retrofit installations. Users can configure the detector through the use of the easy to read LCD and intuitive interface while fault diagnostic software and a programmable calibration period greatly simplify maintenance procedures.



The intrinsically safe smart sensors are supplied pre-configured and can be 'hot swapped' without having to remove power to the detector, saving time and money during commissioning and routine servicing. A remote sensor mounting kit is available that allows the sensor to be mounted up to 15m (50ft) from the transmitter, making it ideal for operation in areas that are difficult to access.

Series 3000 is supplied with all necessary accessories for easy installation. The detector can be wall mounted using the integral mounting lugs or pipe mounted (horizontal or vertical) using the optional pipe mounting kit. Electrical installation is made using the 2 x M20 cable entries (ATEX/IECEx version) or 2 x %"NPT conduit entries (UL/c-UL versions). A suitable blanking plug is also supplied to seal any unused entries. A weatherproof cap is included for use in the harshest outdoor conditions.

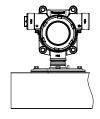
Installation

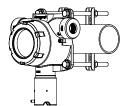


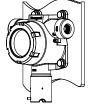


Mechanical Installation Options

Series 3000 MkII and MkIII are designed for use in potentially explosive atmospheres. As such, installation should follow national guidelines using suitable mechanically protected cable and glands (M20 or %" NPT) or conduit (%" NPT). Use 0.5mm² (20AWG) to 2.0mm² (~14AWG) cross sectional area cable as needed to ensure minimum operating voltage at the detector, depending on installed cable length. Various accessories are available for different applications.









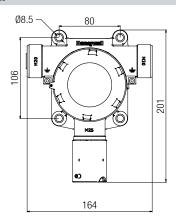
Duct Mount

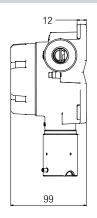
Pipe Mounting

Wall Mount

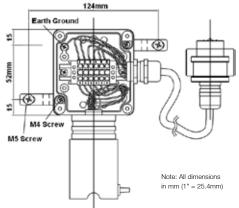
Remote Mounting

Dimensions





Remote Mounting Arrangement



Wiring Schematics Series 3000 MkII

Detector supply V_d

17Vdc (min) to 32Vdc (max)

Maximum detector signal I_m

22mA (over range)

Cable resistance R_c

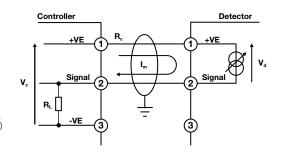
Subject to cable type

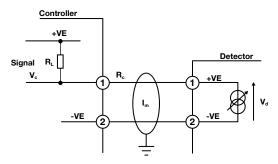
Load resistor of control panel R

- Assumed 33Ω (min) or 250Ω (max)
- Assumed 3312 (min) of 25012 (ma)
 Subject to controller manufacturer

Controller supply voltage V_c

- Subject to controller manufacturer
- Assumed nominal of 24Vdc





Typical Maximum Installed Cable Lengths Series 3000 Mkll

The maximum cable length between a controller and detector is dependent upon:

- The minimum guaranteed supply voltage to the detector at the controller (V_c).
- The minimum operating voltage of the detector (V_d)
- The maximum current draw of the detector (I_m)
- The input impedance of the controller (R_L)
- The resistance of the cable (R_c)

Using the example values, the table opposite shows typical cable lengths.

For a specific application, the cable manufacturer's resistance data for a specific cable type must be used.

A cable length calculation formula can be found in the product technical manual.

Series 3000 M	kll Maximum	Cable Length shown i	n km (mi)
Cable Size	Cable Resistance R _c Ω/km (Ω/mi)	Cable distance km (mi) where the Input Impedance $R_L = 33\Omega$	Cable distance km (mi) where the Input Impedance $R_L = 250\Omega$
0.5mm ² (20AWG*)	36.8 (59.2)	3.9 (2.4)	0.9 (0.6)
1.0mm ² (17AWG*)	19.5 (31.4)	7.3 (4.5)	1.7 (1.1)
1.5mm² (16AWG*)	12.7 (20.4)	11.2 (7.0)	2.7 (1.7)
2.0mm² (14AWG*)	10.1 (16.3)	14.1 (8.8)	3.4 (2.1)

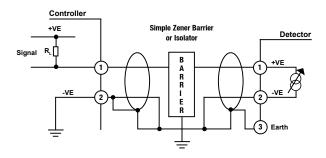
^{*}Nearest equivalent

Installation

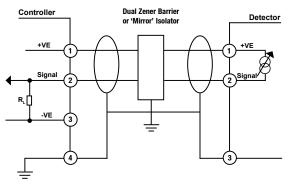




Wiring Schematics Series 3000 MkIII



Single Barrier Schematic



Dual Barrier Schematic

Series 3000 MkIII Cable Length

The limiting factors in calculating maximum cable lengths when using barriers and isolators are the total capacitance and inductance. Barriers and isolators have a fixed amount of capacitance and inductance that can be connected to their outputs. The cable between the field device and barrier/isolator will have a value for capacitance and inductance per metre or kilometre that will be available from the manufacturer or supplier.

To calculate the maximum cable lengths, calculate the total capacitance and inductance for the length of cable, add any capacitance or inductance due to the field device (in the case of Series 3000 MkIII capacitance and inductance = 0). The resulting totals should not be greater than the value shown for the barrier or isolator.

Suggested barriers and isolators Series 3000 MkIII

Listed below are some suggested barriers and isolators for use with Series 3000 MkIII.

MTL7728+ (single channel zener barrier)

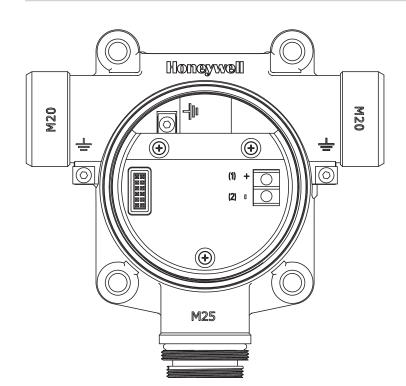
MTL7787+ (2-channel zener barrier)

MTL5042 (Galvanic Isolator)

Pepperl+Fuchs KFD2-STC4-EX1 (Galvanic Isolator)

Note: It is up to the user to ensure that the barrier or isolator used is suitable for their application.

Electrical Connections





Terminal Number	Detector Terminal	Controller Connection
1	+	+VE
2	-	Signal

Technical Summary





Series 3000 MkII and MkIII Detector

Use

Rugged and reliable gas detector for the protection of personnel from toxic and Oxygen gas hazards. Mkll version suitable for use in Zone 1, 2, 21 or 22 hazardous areas and North American Class I and II Division 1 or 2 areas. MkIII version suitable for use in Zone 0, 1, 2, 20, 21 or 22 applications.

Detectable Gases

Gas	Formula		Default Range	Operating Temperature**	
		Scale Range		Min	Max
Oxygen	02	25.0% / Vol only	25.0%Vol	-30°C / -22°F	55°C / 131°F
Hydrogen Sulphide	H ₂ S	10.0 to 50.0ppm	15.0ppm	-40°C / -40°F	55°C / 131°F
Hydrogen Sulphide	H ₂ S	50 to 500ppm	100ppm	-40°C / -40°F	55°C / 131°F
Carbon Monoxide	CO	100 to 500ppm	300ppm	-40°C / -40°F	55°C / 131°F
Sulphur Dioxide	SO ₂	5.0 to 20.0ppm	15.0ppm	-40°C / -40°F	55°C / 131°F
Ammonia*	NH ₃	50 to 200ppm	200ppm	-20°C / -4°F	40°C / 104°F
Ammonia*	NH ₃	200 to 1,000ppm	1,000ppm	-20°C / -4°F	40°C / 104°F
Chlorine	Cl ₂	5.0 to 20ppm	5.0ppm	-10°C / 14°F	55°C / 131°F
Chlorine Dioxide	CIO ₂	1.00ppm only	1.00ppm	-20°C / -4°F	55°C / 131°F
Nitric Oxide	NO	100ppm only	100ppm	-20°C / -4°F	55°C / 131°F
Nitrogen Dioxide	NO ₂	5.0 to 50.0ppm	10ppm	-20°C / -4°F	55°C / 131°F
Hydrogen	H ₂	1,000ppm only	1,000ppm	-20°C / -4°F	55°C / 131°F
Hydrogen	H ₂	9,999ppm only	9,999ppm	-20°C / -4°F	55°C / 131°F
Hydrogen Chloride	HCI	10.0 to 20.0ppm	10ppm	-20°C / -4°F	40°C / 104°F



MkII MkII A wire loop powered 17Vdc (±10%) to 32Vdc (max) 2 wire loop powered 10Vdc (±10%) to 30Vdc (max) 22mA max. over range Entity parameters for Barrier Selection: VmaxVII = 30Vdc [maxVII = 126mA pmaxPII = 1.2W Li = 0mH cl = 0JiF Recommended Cable 2-wire with screen (90% coverage) or conduit 0.5mm² (20AWG) to 2.0mm² (14AWG) Signal 0-100% FSD 4-20mA Fault = 3mA Calibration due selectable off or 3mA Max. over range 22mA Inhibit (loxic sensors) = Selectable 3mA or 4mA Inhibit (loxygen sensors) = Selectable 3mA or 17.4mA Material Transmitter: Epoxy painted aluminium alloy LM25 or 316 Stainless Steel, Sensor: 316 Stainless Steel with PTFE filter Maximum Dimensions 164mm x 201mm x 99mm (6.4* x 7.9" x 3.9") Weight Aluminium alloy LM25: 1.7kg (3.75lbs.) Stainless Steel 316: 3.7kg (8.16lbs.) Environmenta! P Rating IP66 (EN 60529), NEMA 4X Certified Temperature ATEX/ECEX: -20°C to +55°C (-40°F to +131°F) (MkIII -40°C to +55°C (-40°F to +131°F)) (U/c-UL: -40°C to +55°C (-40°F to +131°F) Operating Humidity Continuous 20-90% RH (non-condensing) Intermittent 0-99% RH (non-condensing) Operating Pressure 90-110kPa	Electrical		
17Vdc (±10%) to 32Vdc (max) 22mA max. over range 23mA pmax/Pi = 1.2W Li = 0mH Ci = 0 μF 23mA pmax/Pi = 1.2W Li = 0mH Ci = 0 μF 23mA pmax/Pi = 1.2W 23mA pmax/Pi = 1.	Connections and Power	MkII	MkIII
Vmax/Ui = 30Vdc Imax/Ii = 125mA Pmax/Pi = 1.2W Li = 0mH Ci = 0μF		17Vdc (±10%) to 32Vdc (max)	10Vdc (±10%) to 30Vdc (max)
O.5mm² (20AWG) to 2.0mm² (14AWG) Signal O-100% FSD 4-20mA Fault = 3mA Calibration due selectable off or 3mA Max. over range 22mA Inhibit (toxic sensors) = Selectable 3mA or 4mA Inhibit (0xygen sensors) = Selectable 3mA or 17.4mA Construction Material Transmitter: Epoxy painted aluminium alloy LM25 or 316 Stainless Steel, Sensor: 316 Stainless Steel with PTFE filter Maximum Dimensions 164mm x 201mm x 99mm (6.4" x 7.9" x 3.9") Weight Aluminium alloy LM25: 1.7kg (3.75lbs.) Stainless Steel 316: 3.7kg (8.16lbs.) Environmental IP Rating IP 66 (EN 60529), NEMA 4X Certified Temperature ATEX/IECEX: -20°C to +55°C (-40°F to +131°F) (Mklll -40°C to +55°C (-40°F to +131°F)) UL/c-UL: -40°C to +55°C (-40°F to +131°F) Operating Humidity Continuous 20-90% RH (non-condensing) Intermittent 0-99% RH (non-condensing) Operating Pressure			Vmax/Ui = 30Vdc Imax/Ii = 125mA Pmax/Pi = 1.2W Li = 0mH
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Operating Pressure 90-110kPa	Certified Temperature	, , ,	lklll -40°C to +55°C (-40°F to +131°F))
	Operating Humidity	Continuous 20-90% RH (non-condensing) Intermit	ttent 0-99% RH (non-condensing)
Storage Conditions 15°C to 30°C (59°F to 86°F), 30-70% RH (non-condensing)	Operating Pressure	90-110kPa	
	Storage Conditions	15°C to 30°C (59°F to 86°F), 30-70% RH (non-con	idensing)



^{*}Suitable for applications without NH₃ ambient background concentrations only.

**When operating in Hazardous Area applications the detector must not be operated outside the certified temperature range. See Certification details for UL, c-UL and ATEX/IECEx certified temperature ranges.

1 +55°C / 131°F intermittent.



Technical Summary and Ordering Information



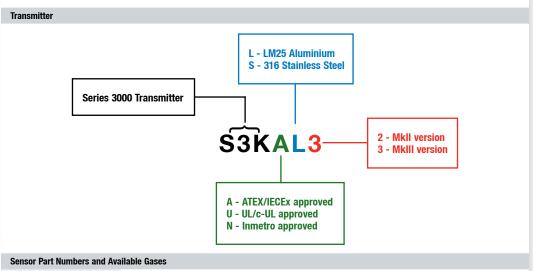


Certification		
	MkII	MkIII
	Transmitter: UIL/c-UIL: Class I, Div. 1 & 2, Groups B, C & D; Class II, Div. 1 Groups E, F & G, Class II, Div. 2, Groups F & G; Class I, Zone 1, Group IIB + H2 Hazardous Locations ATEX: II 2 (1) GD Ex d [ia IIC Ga] IIB + H2 T4 Gb Ex t [ia IIIC Da] IIIB T135°C Db IECEX: Ex d [ia IIC Ga] IIB + H2 T4 Gb Ex t [ia IIIC Da] IIIB T135°C Db	Transmitter: UL/cUL Class I, Divisions 1 & 2, Groups A, B, C & D; Class II, Divisions 1 & 2, Groups E, F & G ATEX: □ II 1 (1) GD Ex ia IIC T4 Ga Ex ia IIIC T135°C Da IECEx: Ex ia IIC T4 Ga Ex ia IIIC T135°C Da
	Remote Sensor Accessory: UL/c-UL: Class I, Division 1, Groups A, B, C and D Class II, Divisions 1 and 2, Groups E, F and G Class 1, Zone 0, Group IIC; Class II, Zone 20 ATEX: II 1G D Ex ia IIC T4 Ga Ex ia IIIC T135°C Da	Remote Sensor Accessory: UL/c-UL = Class I, Div. 1, Groups A, B, C & D; Class II Division 1 & 2, Groups E, F & G; Class 1, Zone 0, Group IIC; Class II, Zone 20 ATEX: II 1G D Ex ia IIC T4 Ga Ex ia IIIC T135°C Da
	IECEx: Ex ia IIC T4 Ga Ex ia IIIC T135°C Da	IECEx: Ex ia IIC T4 Ga Ex ia IIIC T135°C Da
Approvals	CE compliant in accordance with: ATEX Directive 94/9/	EC, EMC Directive 2004/108/EC, EN 50270

Ordering Information

A complete assembly consists of two parts, a transmitter and sensor which must be ordered separately.

- Transmitter PN#: Two certified versions are available:
 - ATEX/IECEx approved version (Aluminium version part number S3KAL2, S3KAL3 Stainless Steel version part number S3KAS2, S3KAS3)
 - UL/CSA approved version (Aluminium version part number S3KUL2, S3KUL3, Stainless Steel version part number S3KUS2, S3KUS3)
 - Inmetro approved version (Aluminium version part number S3KNL2, S3KNL3, Stainless Steel version part number S3KNS2, S3KNS3)
- Sensor PN#: All certified ATEX, IECEx, UL, CSA (c-UL) with two digits to specify gas type and range:
 - e.g. S3KXXC1SS (C1 denotes Carbon Monoxide, with a default range of 0-300ppm and user configurable for ranges from 0-100ppm to 0-500ppm (in 100ppm steps))



Sensor Part Numbers and Ava	ilable Gases
S3KXS01SS	Oxygen (0_2) 0-25% Vol
S3KXSC1SS	Carbon Monoxide (CO) 0-300ppm (default) 0-100 to 0-500ppm selectable
S3KXSC2SS	Carbon Monoxide (CO) 0-300ppm (default) 0-100 to 0-999ppm selectable
S3KXSH1SS	Hydrogen Sulphide (${\rm H_2S}$) 0-15ppm (default) 0-10 to 0-50ppm selectable
S3KXSH2SS	Hydrogen Sulphide (${\rm H_2S}$) 0-100ppm (default) 0-50 to 0-500ppm selectable
S3KXSL1SS	Chlorine (Cl_2) 0-5ppm (default) 0-5 to 0-20ppm selectable



Ordering Information Continued



Ordering Information Continue	
S3KXSS1SS	Sulphur Dioxide (SO_2) 0-15ppm (default) 0-5 to 0-20ppm selectable
S3KXSX1SS	Chlorine Dioxide (CIO ₂) 0-1ppm only
S3KXSM1SS	Nitrogen Monoxide (NO) 0-100ppm only
S3KXSN1SS	Nitrogen Dioxide (NO_2) 0-10 ppm (default) 0-5 to 0-50 ppm selectable
S3KXSG1SS	Hydrogen (H ₂) 0-1000ppm only
S3KXSG2SS	Hydrogen (H2) 0-10,000 only
S3KXSR1SS	Hydrogen Chloride (HCl) 0-10ppm (default) 0-10 to 0-20ppm selectable
S3KXSA1SS	Ammonia (NH ₃) 0-200ppm (default) 0-50 to 0-200ppm selectable
S3KXSA2SS	Ammonia (NH ₃) 0-1000ppm (default) 0-200 to 0-1,000ppm selectable
Shipping Details	
Shipping carton dimensions Approximate weight	315mm (12.4") (L) x 230mm (9.0") (W) x 115mm (4.5") (D) Aluminium alloy LM25 : 1.7kg (3.75lbs.) Stainless Steel 316 : 3.7kg (8.16lbs.)
Optional Accessories	
SPXCDMTBR	Pipe Mounting Bracket
SPXCDSDP	Sunshade/Deluge Protection
S3KCAL	Calibration gas flow housing
S3KCC	Collecting cone (for use when detecting Hydrogen gas only)
S3KDMK	Duct mounting kit (for use when detecting $\mathrm{O_2}$, CO , $\mathrm{H_2S}$ or $\mathrm{H_2}$ gas)
S3KRMK	ATEX/UL/c-UL approved remote sensor mounting kit (includes enclosure with sensor socket, 15m (50 feet) of digital cable and glands, transmitter cable plug, mounting screws)
Calibration Gases	Contact Honeywell Analytics representative



Our Product Range









Fixed Gas Monitoring

Honeywell Analytics offers a wide range of fixed gas detection solutions for a diverse array of industries and applications including: Commercial properties, industrial applications, semiconductor manufacturers, energy plants and petrochemical sites.

- Detection of flammable, Oxygen and toxic gases (including exotics)
- Innovative use of four core sensing technologies – paper tape, electrochemical cell, catalytic bead and infrared
- Capability to detect down to Parts Per Billion (ppb) or Percent by Volume (%v/v)
- Cost effective regulatory compliance solutions

Portable Gas Monitoring

When it comes to personal protection from gas hazards, Honeywell Analytics has a wide range of reliable solutions ideally suited for use in confined or enclosed spaces. These include:

- Detection of flammable, Oxygen and toxic gases
- Single gas personal monitors worn by the individual
- Multi-gas portable gas monitors used for confined space entry and regulatory compliance
- Multi-gas transportable monitors used for temporary protection of area during site construction and maintenance activities

Technical Services

At Honeywell Analytics, we believe in the value of great service and customer care. Our key commitment is providing complete and total customer satisfaction. Here are just a few of the services we can offer:

- » Full technical support
- Expert team on hand to answer questions and queries
- Fully equipped workshops to ensure quick turnaround on repairs
- Comprehensive service engineer network
- » Training on product use and maintenance
- » Mobile calibration service
- Customised programmes of preventative/corrective maintenance
- » Extended warranties on products

Find out more

www.honeywellanalytics.com

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