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Premier Standard Power Sensors

Non dispersive infrared (NDIR) gas sensor, provides compensated and linearized output. Available as single and dual gas types. Ex'd and SIL1 available.

Product Ordering Code {Feature 1}+{Feature 2}+{Feature 3}+{Feature 4}+...+{Feature 11}

Feature	Item	Description
Feature 1	Type	
	G-	Gold (Legacy Support)
	P-	Platinum
Feature 2	Gas Type	
	CH4_	Methane
	C3H8	Propane
	CO2_	Carbon Dioxide
	N2O_	Nitrous Oxide (Platinum Only)
	DUAL	Dual Hydrocarbon and Carbon Dioxide (Platinum Only)
	R32_	R32 (Platinum Only)
	454B	R454b (Platinum Only)
	R744	R744 (Platinum Only)
	R290	R290 (Platinum Only)
HC_	Hydrocarbon	
Feature 3	Range	
	1K	0-1000ppm (N2O, CO2)
	5K	0-5000ppm (CO2)
	1P	0-1%vol (N2O)
	5P	0-5%vol (CH4, CO2)
	2P	0-2%vol (C3H8)
	10	0-10%vol (CO2)
	1H	0-100%vol (CH4, CO2, C3H8)
	DL	0-5-100%vol Methane / 0-2%Propane and 0-5%CO2 (Dual Only)
	DH	0-5-100%vol Methane / 0-2%Propane and 0-100%CO2 (Dual Only)
	HR	0-5-100% Methane
	HC	All HC
	CA	All CO2
Feature 4	Power	
	L2	8mA (24mW) - Low power 2 (LP2) - (Compatible with Feature 3, 5K, 5P & 2P Only)
	LP	15mA (45mW) - Low power (LP)
	RP	80mA (240mW) - Regular power
	HP	140mA (420mW) - High power (HP)
Feature 5	Certification	
	NE	Non-Ex'd
	SN	SIL1, Non-Ex'd
	ED	Ex'd
	SE	SIL1, Ex'd
	ME	Mining Ex'd
SM	SIL1, Mining Ex'd	
Feature 6	Pins	
	3	3-pin (analogue only, not available for Dual Gas)
	4	4-pin (digital only)
5	5-pin (analogue & digital, not available for Dual Gas)	
Feature 7	Output	
	B	Bridge output
	V	Voltage output
0	No analogue output (4-pin only)	
Feature 8	Polarity	
	P	Positive polarity
N	Negative polarity	
Feature 9	Filter	
	F	PTFE Filter Fitted
0	No Filter Fitted	
Feature 10	Temperature	
	S	Standard temperature
X	Extended temperature (XTR only available on non-Ex'd)	
Feature 11	Special Request	
	0	No Special Request

	Q	Special request - Include on PO
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Accessories		
	P-INT	Premier 4-20mA converter. Only suitable for use with single range sensors.
	P-CONFIG-POS	Premier configuration unit - positive polarity sensors
	P-CONFIG-NEG	Premier configuration unit - negative polarity sensors
	P-PCB	Premier PCB with 150mm leads
	P-PCB-NL	Premier PCB without leads
	SENSOR SOCKET	Recommened pin socket
	OEM-1-MTG	Sensor mounting
	OEM-1-ADTR	Gas flow adaptor for OEM-1-MTG
	GAS SAMP. CAP	Gas sampling cap
	PTFE FILTER	14µm pore PTFE filter

Ordering Examples	
P-CO2_5PRPNE5VP0S0	Platinum, Carbon Dioxide, 0-5%vol (CH4, CO2), 80mA (240mW) - Regular power, Non-Ex'd, 5-pin (analogue & digital, not available for Dual Gas), Voltage output, Positive polarity, No Filter Fitted, Standard temperature, No Special Request
G-CH4_5RPED5VP0S0	Gold (Legacy Support), Methane, 0-5%vol (CH4, CO2), 80mA (240mW) - Regular power, Ex'd, 5-pin (analogue & digital, not available for Dual Gas), Voltage output, Positive polarity, No Filter Fitted, Standard temperature, No Special Request
P-DUALDLRPSE40PFS0	Platinum, Dual Hydrocarbon and Carbon Dioxide (Platinum Only), 0-5-100%vol Methane / 0-2%Propane and 0-5%CO2 (Dual Only), 80mA (240mW) - Regular power, SIL1, Ex'd , 4-pin (digital only), No analogue output (4-pin only), Positive polarity, PTFE Filter Fitted, Standard temperature, No Special Request
P-CH4_1HRPNE5VP0S0	Platinum, Methane, 0-100%vol (CH4, CO2, C3H8), 80mA (240mW) - Regular power, Non-Ex'd, 5-pin (analogue & digital, not available for Dual Gas), Voltage output, Positive polarity, No Filter Fitted, Standard temperature, No Special Request

Standard Series Sensors

Non dispersive infrared (NDIR) gas sensor, provides raw output. User must provide temperature compensation, signal processing, linearisation and electronic drive. Ex'd available.

Product Ordering Code {Feature 1}+{Feature 2}+{Feature 3}+{Feature 4}+...+{Feature 6}

Feature	Item	Description
Feature 1	Product Variant	
	STD-	Standard Series Sensor
Feature 2	Gas Type	
	HC_	Hydrocarbon
	CO2_	Carbon Dioxide
	HHC_	Propane (10-100% vol. range)
	HCO2	Carbon Dioxide (10-100% vol. range)
N2O_	Nitrous oxide (0-1% vol. only)	
Feature 3	Certification	
	NE	Non-Ex'd
	ED	Ex'd
Feature 4	Heater	
	0	None
	L	Heater on lamp supply
	P	Heater on pyro supply
Feature 5	Isolation	
	I	0V pin isolated from housing
	0	0V pin connected to housing
Feature 6	Filter	
	F	PTFE Filter Fitted
	0	No Filter Fitted
Feature 7	Plastic Insert	
	P	45 micron plastic insert (Non-certified only)
	0	No plastic insert

Accessories

OEM-1	Standard sensor interface
OEM-1-KIT	Standard sensor OEM development kit
OEM-1-LEAD	RS232 cable, male - female D-connectors
OEM-1-CABLE	Standard PCB with 150mm leads, for connection to OEM-1
OEM-1-SPCB	Standard PCB without leads
OEM-1-COMMLEAD	RS232 cable for interface with OEM-1
OEM-1-MTG	Sensor mounting
OEM-1-ADTR	Gas flow adaptor for OEM-1-MTG
OEM-1-SOFTWARE	User interface software for OEM-1
PTFE FILTER	14µm pore PTFE filter
SENSOR SOCKET	Recommened pin socket

Ordering Examples

HC__NE00FP	Hydrocarbon, Non-Ex'd, None, 0V pin connected to housing, PTFE Filter Fitted, 45 micron plastic insert (Non-certified only)
N2O_EDPIF0	Nitrous oxide (0-1% vol. only), Ex'd, Heater on pyro supply, 0V pin isolated from housing, PTFE Filter Fitted, No plastic insert,
CO2_0L00P	Carbon Dioxide, Non-Ex'd, Heater on lamp supply, 0V pin connected to housing, No Filter Fitted, 45 micron plastic insert (Non-certified only)

GSH HOUSING

Flameproof and non-certified sensor housings - can be fitted with a range of different sensor technologies (infrared, pellistor, electrochemical) for detection of a wide variety of gasses, depending on the sensor fitted.

Product Ordering Code {GSH-}+{Feature 1}+{Feature 2}+{Feature 3}+{Feature 4}

Feature	Item	Description
Feature 1	Type	
	GSH-	Sensor Housing
Feature 2	Sensor Type	
	PRM	PCB to fit Premier sensor
	STD	PCB to fit Standard sensor
	4-S	PCB to fit 4-Series sensor
	7-S	PCB to fit 7-Series sensor
	PID	PCB to fit PID sensor (Designed for Ion Science PID sensor)
	H2-	PCB to fit Hydrogen sensor (Designed for FES Sensor Tech Sensors)
Feature 3	Certification	
	ATEX	Stainless steel construction with ATEX and IECEx flameproof certification for use in hazardous area zones 1 & 2.
	SAFE	Nylon construction for use in safe areas
Feature 4	Threads	
	M20	M20 Thread
	N34	3/4" NPT Thread
	N12	1/2" NPT Thread
Feature 5	Temperature	
	S	Standard temperature range (-20...+60C)
	X	Extended temperature range (-40...+75C)

Accessories

	GSH4-GUARD	Rain Guard (not suitable for -40...+75C version)
	GSH-FLOW	Stainless steel flow through calibration adaptor 1/8" BSP threads
	GSH-FLOW-6MM	Stainless steel flow through adaptor with 6mm push-fit connectors
	GSH-ADTR	Nickel plated brass calibration adaptor with hose-tail fittings for 4mm ID pipe

Ordering Examples

GSH-PRMATEXM20	PCB to fit Premier sensor, Stainless steel construction with ATEX and IECEx flameproof certification for use in hazardous area zones 1 & 2., M20 Thread
GSH-7-SSAFEN34	PCB to fit 7-Series sensor, Nylon construction for use in safe areas, 3/4" NPT Thread
GSH-STDATExN12	PCB to fit Standard sensor, Stainless steel construction with ATEX and IECEx flameproof certification for use in hazardous area zones 1 & 2., 1/2" NPT Thread

Axiom A2L Detector

A2L detector. Certified to UL60335-2-4 4th edition, annex LL.

Product Ordering Code {AX-}+{Feature 1}+{Feature 2}+{Feature 3}

Feature	Item	Description
Feature 1	Type	
	AX-	Axiom A2L Detector
Feature 2	Gas Type	
	454B	R454B
	R290	R290 (Propane)
	R32-	R32
	454C	R454C
	R744	R744 (Carbon Dioxide)
Feature 3	Range	
	LFL	0-100% LFL
	PPM	0-500PPM (R744 only)
	VOL	0-5% volume (R744 only)
Feature 4	Output Type	
	A	Analogue
	D	Digital
Feature 5	Output Option	
	MA_	4-20mA (analogue only)
	VO_	0.2-4.0V (analogue only)
	OC_	Open Collector (analogue only)
	232	RS232 UART (digital only)
	485	RS485 Modbus (digital only)
	USB	USB 2.0 (digital only)

Ordering Examples

AX-454BLFLAMA	R454B,, Analogue, 4-20mA (analogue only)
AX-R290LFLAUSB	R290 (Propane), Analogue, USB 2.0 (digital only)