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# Premier Sensors

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

Feature	Item	Description
Feature 1	Premier Series Sensors	
	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)
	454A	R454a (Platinum Only)
	454B	R454b (Platinum Only)
	454C	R454c (Platinum Only)
	R744	R744 (Platinum Only)
	R290	R290 (Platinum Only)
	HC_	Hydrocarbon
Feature 3	Range	
	1K	0-1000ppm (N2O)
	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
	QP	Custom Gas Range (Low Range Hardware)
	QH	Custom Gas Range (High Range Hardware)
	FL	LFL (R-Gas only)
Feature 4		Power
	L2	8mA (24mW) - Low power 2 (LP2) - (Compatible with <u>Feature 3</u> , 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

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-CO2_5KL2NE40PFT0	Platinum, Carbon Dioxide, 0-5000ppm (CO2), 8mA (24mW) - Low power 2 (LP2) - (Compatible with Feature 3, 5K, 5P & 2P Only), Non-Ex'd, 4-pin (digital only), No analogue output (4-pin only), Positive polarity, PTFE Filter Fitted, Extreme Temperature (XTR), 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-C3H82PHPED3BN0SH	Platinum, Propane, 0-2%vol (C3H8), 140mA (420mW) - High power (HP), Ex'd, 3-pin (analogue only, not available for Dual Gas), Bridge output, Negative polarity, No Filter Fitted, Standard temperature, Long Pins
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		
Product Ordering Code {Feature 1}+{Feature 2}+{Feature 3}+{Feature 4}+...+{Feature 6}		
Feature	Item	Description
Feature 1	Premier Series Sensors	
	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-SPCB	Standard PCB without leads
OEM-1-MTG	Sensor mounting
OEM-1-ADTR	Gas flow adaptor for OEM-1-MTG
PTFE FILTER	14µm pore PTFE filter
SENSOR SOCKET	Recommended 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		
Product Ordering Code {GSH-}+{Feature 1}+{Feature 2}+{Feature 3}+{Feature 4}		
Feature	Item	Description
Feature 1	Premier Series Sensors	
	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	
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
7-SSAFEN34	PCB to fit 7-Series sensor, Nylon construction for use in safe areas, 3/4" NPT Thread
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