GasPoint

H_2S, CO, NH_3, HCN, NO_2, SO_2, O_2, Cl_2
Combustibles (Catalytic 0-100% LEL) or
Combustibles (IR 0-100% LEL)

BW Technologies
by Honeywell

Gas Transmitter with Internal Alarm Relays

One Transmitter
with interchangeable electrochemical, infrared and catalytic plug-in sensors

CSA ® C US

FEATURES:

The GasPoint transmitter provides a 4-20 mA output signal that can be connected to any control system (DCS, PLC, etc.). With advanced sensor technology and microcontroller based operation, the GasPoint provides continuous monitoring of hazardous gases.

△ The GasPoint transmitter can accept any GasPoint sensor type: electrochemical, catalytic or IR (infrared). All plug-in sensor assemblies are field-interchangeable.

△ Full function sensor integrity test (auto) continuously advises gas sensing ability and life ended

△ Non-intrusive, one-person calibration with auto zero and auto span

△ Equipped with three 5-amp relay contacts—two gas alarm relays (low/high) and fault alarm. Field-selectable normally energized/ de-energized and latching/non-latching alarm relay functions.

△ Two backlit alphanumeric LCDs advise all environmental and gas hazard conditions as well as instrument and sensor status

△ Remote toxic/oxygen sensors can be installed over 3,900 ft./ 1,100 m away; combustible sensors over 1,550 ft./475 m. Kit can be installed at any time.

△ Alarm setpoints displayed on demand—simply press the external button

△ Field programmable alarm levels

△ Backlight (auto) in low light conditions and alarm

△ Extensive fault diagnostics

△ 2-way digital communication using MODBUS module

ISO
ISO9001:2000
Registered

Fixed Gas Monitoring Systems

Ordering Information

GP-WD	Gas Transmitter with Combustible Catalytic Sensor
GP-IR-WD	Gas Transmitter with Combustible Infrared Sensor
GP-HD	Gas Transmitter with H_2S Sensor
GP-MD	Gas Transmitter with CO Sensor
GP-AD	Gas Transmitter with NH_3 Sensor
GP-ZD	Gas Transmitter with HCN Sensor
GP-DD	Gas Transmitter with NO_2 Sensor
GP-SD	Gas Transmitter with SO_2 Sensor
GP-XD	Gas Transmitter with O_2 Sensor
GP-CD	Gas Transmitter with Cl_2 Sensor

Accessories and Spares

GP-POWER1	120-240 VAC Power Supply
GP-MBUS4	2-wire/4-wire MODBUS Communication Expansion Module
GP-SEP	Sensor Separation Kit
GP-1 Gas	Transmitter
GP-SSPB	Stainless Steel Process Baff e
GP-SSCAL4	Stainless Steel GasPoint Splash Guard
GP-DUC-K1 Duct	Mount Adaptor

Replacement Sensor Assemblies

SS-RH02.....H_2S SS-RM02.....CO   SS-RA02.....NH_3
SS-RZ02.....HCN SS-RD02.....NO_2 SS-RC02.....Cl_2
SS-RS02.....SO_2 SS-RX02.....O_2
SS-RW02....Combustible Catalytic Sensor Assembly
IR-RW03.....Combustible IR Sensor Assembly

GasPoint

LEL, H₂S, CO, NH₃, HCN, NO₂, SO₂, Cl₂ or O₂

4-20 mA Gas Transmitter

Display advises:

△ Gas type monitored

△ Continuous (%LEL, %v/v or ppm) readout of gas concentration

△ Alarm level and type encountered - LOW/HIGH or FAULT

△ When sensor has failed its automatic daily self-test

△ "Sensor Replacement" and "Sensor Expired" indications

△ When to apply gas during calibration

Special Features

Change gases monitored in the f eld at any time. The GasPoint Transmitter will recognize the sensor installed and test and reset itself to that sensor type.

No junction box connection required.

Daily sensor integrity test (auto) monitors sensor operation, length of time sensor has been in service and advises when sensor requires replacement.

GasPoint allows you to set or change calibration time and gas alarm setpoints in the f eld.

Select or modify the measuring range using a simple dipswitch.

The optional plug-in MODBUS expansion module provides an addressable communications interface (1-247).

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SPECIFICATIONS

MONITOR: 3-wire, 4-20 mA gas transmitter with advanced microcontroller-based circuitry

Power Input: 12 to 32 volts DC

Output Current:
Normal Operation: Isolated linear 4-20 mA output
Calibration Mode: Steady 3 mA (auto reset to normal operation)
Fault Mode: 2 mA signal (and less)

Power Consumption:
Toxic Versions: 40 mA at 24 VDC
Combustible Version: 100 mA at 24 VDC
Relays: 50 mA per relay at 24 VDC

SENSORS: Plug-in, smart sensors

Detection Type: Combustible gases: catalytic or IR; Toxic gases and Oxygen: electrochemical

Self-Test:: Automatic daily self-test of sensor integrity and sensor life

Relative Humidity: 5 to 95% RH non-condensing

Drift: Zero: <5% per year; Span: <10% per year

Gas Monitoring Specif cations	Detectable Accuracy	LCD Increment	Temperature Range	Units	Programmed Measuring Ranges
Combustibles - Catalytic	1%	1	-40 to +90°C / -40 to +194°F	%LEL	0-100*
Combustibles - Infrared	1%	1	-40 to +70°C / -40 to +150°F	%LEL	0-100*
H₂S	0.25 ppm	1	-40 to +50°C / -40 to +122°F	ppm	0-20, 0-50, 0-100*, 0-500
CO	1 ppm	1	-20 to +50°C / -4 to +122°F	ppm	0-50, 0-100, 0-500*, 0-1,000
NH₃	1 ppm	1	-10 to +50°C / +14 to +122°F	ppm	0-50*, 0-100, 0-500, 0-1,000
HCN	0.1 ppm	0.1	-20 to +50°C / -4 to +122°F	ppm	0-20.0*, 0-50.0, 0-100
NO₂	0.1 ppm	0.1	-20 to +50°C / -4 to +122°F	ppm	0-50.0*, 0-10.0, 0-20.0, 0-99.9
SO₂	1 ppm	1	-20 to +50°C / -4 to +122°F	ppm	0-100*, 0-50, 0-20, 0-10
O₂	0.1%	0.1	-20 to +50°C / -4 to +122°F	%v/v	0-30.0%*
Cl₂**	0.1 ppm	0.1	-20 to +50°C / -4 to +122°F	ppm	0-5.0*, 0-10.0, 0-100.0

*Factory default setting
**Note: Cl₂ not rated for Class I, Div. 1

CALIBRATION: Non-intrusive, via pushbutton
Auto zero and auto span

DISPLAYS: Two backlit liquid crystal displays
LCD 1 3-digit continuous readout of the gas present (ppm, % LEL or %v/v)
LCD 2 Alphanumeric diagnostic status display

Alarm Setpoints: Two setpoints: user-selectable

RELAY CONTACTS: Three SPDT relays; 5 amps at 250 VAC
LOW/HIGH: Field selectable for normally energized/de-energized and latching/ non-latching
FAULT: Normally energized and non-latching

TRANSMISSION RANGES: Relay contacts not considered. (For ranges with relays see manual.)

Conductor Size		Toxic / Oxygen Sensors		Combustible Sensors	
22 AWG	0.64 mm	6,712 ft.	2,045 m	3,356 ft	1,022 m
20 AWG	0.75 mm	10,953 ft.	3,253 m	5,336 ft.	1,626 m
18 AWG	1.0 mm	16,953 ft.	5,167 m	8,476 ft.	2,583 m

CONTROLS: Calibration: Non-intrusive via external pushbutton
Alarm Setpoints: Simple up/down pushbuttons with LCD readout of setpoints

PHYSICAL: Size: 6.8 x 7 x 4.3 inches / 17 x 17.8 x 10.8 cm (approx.)
Weight: 4.85 lb. / 2.2 kg (approx.)

Transmitter: Nema 4, explosion-proof, anodized aluminum enclosure with mounting f anges
Sensor: Stainless steel enclosure

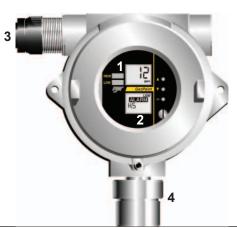**WARRANTY:** Instrument: 2 years non-prorated; Sensor: 2 years full replacement warranty

DUE TO ONGOING RESEARCH AND PRODUCT IMPROVEMENT, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

RATINGS AND CERTIFICATIONS: Class I, Div. 1, Groups B, C, D (LEL and IR models)
Class I, Div. 1, Groups B, C, D; Class II, Div. 1, Groups E, F, G (toxic models only)
Explosion-proof: ANSI/ISA: UL 1203; CSA: C22.2 No 30
Combustible Performance Standards: ANSI/ISA: ISA-S12.13; CSA: C22.2 No 152

1 Large, backlit LCD readout of gas concentration

2 Alphanumeric LCD showing transmitter STATUS and diagnostics

3 Non-intrusive calibration via simple pushbutton

4 Interchangeable sensor types: LEL (catalytic or IR), toxic gas or oxygen with common transmitter assembly

5 Three relays: two gas alarm relays, one fault relay

H₂S

CO

O₂

SO₂

NH₃

Cl₂

NO₂

HCN

LEL

GasPoint

Continuous monitoring

The GasPoint, with advanced sensor technology and microcontroller based operation, provides continuous monitoring of hazardous gases. With interchangeable electrochemical, infrared and catalytic plug-in sensors, the GasPoint provides a 4-20 mA output signal that can be connected to any control system. Simple operation allows calibration time and gas alarm setpoints to be changed or set in the field. Two-way digital communication using optional MODBUS module.

- Interchangeable electrochemical, catalytic or IR (infrared) plug-in sensor assemblies
- Non-intrusive, one-person calibration with auto zero and auto span
- User-defined alarm setpoints displayed on demand—simply press the external button
- Field programmable alarm levels
- Backlight (auto) in low light conditions and alarm
- Two-way digital communication using optional MODBUS module
- Full function sensor integrity test
- Field-selectable normally energized/de-energized and latching/non-latching alarm relay functions
- Remote toxic/oxygen sensors can be installed over 3900 ft. / 1188 m away and combustible sensors over 1,550 ft./472 m

Standard Package Contents
- 3-wire, 4-20 mA GasPoint transmitter
- Stainless steel sensor assembly (as specified)
- Test cap
- Manual

General Specifications

Size	6.8 x 7 x 4.3 in. / 17 x 17.8 x 10.8 cm
Weight	4.85 lb. / 2.2 kg
Enclosure	Nema 4, explosion-proof, anodized aluminum enclosure with mounting flanges
Power input	12 to 32 volts DC
Power consumption	Toxic versions: 40 mA at 24 V$_{DC}$ LEL versions: 100 mA at 24 V$_{DC}$ Relays: 50 mA per relay at 24 V$_{DC}$
Certifications and approvals	Class I, Div. 1, Gr. B, C, D Class II, Div. 1, Gr. E, F, G (toxic models only)
Warranty	Full two year warranty including sensors (One year Cl₂ sensor)

5062-22-NCL-BW-EN

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Wear yellow. Work safe.

GasPoint	Order Number
GasPoint transmitter with H_2S sensor unit, MODBUS compatible	GP-HD
GasPoint transmitter with CO sensor unit, MODBUS compatible	GP-MD
GasPoint transmitter with O_2 sensor unit, MODBUS compatible	GP-XD
GasPoint transmitter with LEL catalytic sensor unit, MODBUS compatible	GP-WD
GasPoint transmitter with SO_2 sensor unit, MODBUS compatible	GP-SD
GasPoint transmitter with Cl_2 sensor unit, MODBUS compatible *Cl_2 not rated for Class I, Div. 1*	GP-CD
GasPoint transmitter with HCN sensor unit, MODBUS compatible	GP-ZD
GasPoint transmitter with NO_2 sensor unit, MODBUS compatible	GP-DD
GasPoint transmitter with NH_3 sensor unit, MODBUS compatible	GP-AD
GasPoint transmitter with LEL infrared (IR) sensor unit, MODBUS compatible	GP-IR-WD

Accessories and Options	Order Number
GasPoint sensor separation kit	GP-SEP
GasPoint stainless steel splash guard / test cap assembly	GP-SSCAL4
GasPoint plastic splash guard	GP-CAL-3
GasPoint pushbutton switch protective boot	GPOINT-B
Duct mount adaptor	GP-DUC-K1
GasPoint process baffle, stainless steel with barbed fittings	GP-SSPB
GasPoint MODBUS 2 or 4-wire communication expansion module	GP-MBUS4
GasPoint process baffle, stainless steel with NPT fittings	GP-SSPB-2
Power supply 110-230 V_{AC}, Class I, Div. 2	GP-POWER1

Sensor Assembly Replacements	Order Number
GasPoint H_2S stainless steel sensor assembly	SS-RH02
GasPoint CO stainless steel sensor assembly	SS-RM02
GasPoint O_2 stainless steel sensor assembly	SS-RX02
GasPoint combustible (LEL) stainless steel sensor assembly	SS-RW02
GasPoint SO_2 stainless steel sensor assembly	SS-RS02
GasPoint infrared (IR) combustible (LEL) sensor assembly	IR-RW03
GasPoint Cl_2 stainless steel sensor assembly	SS-RC02
GasPoint HCN stainless steel sensor assembly	SS-RZ02
GasPoint NO_2 stainless steel sensor assembly	SS-RD02
GasPoint NH_3 stainless steel sensor assembly	SS-RA02

Plug-in Sensors	Order Number
Hydrogen sulfide (H_2S) sensor	PS-RH01
Carbon monoxide (CO) sensor, H_2S filtered	PS-RM01
Oxygen (O_2) sensor	PS-RX01
Combustible (%LEL) sensor	SR-W04
Sulfur dioxide (SO_2) sensor	PS-RS01
Chlorine (Cl_2) sensor	PS-RC01
Hydrogen cyanide (HCN) sensor	PS-RZ01
Nitrogen dioxide (NO_2) sensor	PS-RD01
Ammonia (NH_3) sensor	PS-RA03
Calibration plug for stainless steel sensor assembly	E0036

Spares and Replacements	Order Number
GasPoint control board with LCDs and internal faceplate	GP-FP-MPCB1
GasPoint power board with relays	GP-PPCB1
Replacement PCB for GasPoint sensor separation kit	GP-SEP-PCB1
GasPoint reset switch	M2329
GasPoint peel-off hydrophobic filters, kit of 10	GP2-FILK2