Ordering information





Controllers				
Unipoint Controller (mV inp	ut version)	2306B2000		
Unipoint Controller (mA inp	•	2306B1000		
	,			
Spares				
Unipoint Terminal Block Plu	ıg (x2)	2306B3010		
Unipoint DIN rail socket kit		2306B3020		
Unipoint power connector k	cit	2306B3030		
Required controller type reference	ce:			
Detector	Gas Type	No. Wires	Controller Required	
Signalpoint	Flammable	3	mV	
	Toxic	2	mA	
Sensepoint	Flammable	3	mV	
	Toxic	2	mA	
	Et a constate	3	mA	
Sensepoint Plus	Flammable		mΛ	
Sensepoint Plus Sensepoint Pro	Toxic Flammable	3	mA mA	



Honeywell Analytics Lines of Business







Commercial

Vulcain-brand gas detection from standalone units to fully engineered, multipoint systems, all offering cost-effective regulatory compliance

» Applications: parking structures, chillers, mechanical rooms, office towers, commercial buildings, shopping centers, swimming pools, golf courses, schools and universities, laboratories

Industrial

Renowned Sieger and Manning gas detection systems with advanced electrochemical, infrared and open path sensing technologies

» Applications: oil and gas, cold storage, water/wastewater treatment, chemicals, engine rooms, plastics and fibers, agriculture, printing and light industrial

Portables

Single or multi-gas Lumidor and other premium detectors with compact, lightweight designs ranging from simple alarm only units to advanced, fully configurable and serviceable instruments

» Applications: underground utility and electricity ducts, boiler rooms, post-fire sites, sewers, industrial plants, industrial hygiene, first responder teams, remote fleets





Find out more

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Technical Services

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High Tech/Government

A complete portfolio of gas and chemical detection instrumentation including infrared spectroscopy (MST) with no cross interference, to Chemcassette paper-based solutions (MDA Scientific) offering detection down to parts per billion

» Applications: semiconductor manufacturing and nanotechnology, aerospace propulsion and safety, specialty chemicals industry, research laboratories, emergency response

Technical Services

24/7 global network includes post-sales service and Systems Integration teams

- » Emergency call out, service contracts, on/off-site repair, training and commissioning
- » Complete range of spares, consumables and accessories

Europe, Middle East, Africa

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Zareba Unipoint controller

Honeywell





The Zareba Unipoint, a simple DIN rail mounted controller

Unipoint DIN controller





Typical Applications

- Small and medium integrated systems
- · Custom control cabinets and panels
- Unmanned equipment rooms
- Boiler Houses
- · HVAC systems
- · Analyzer houses
- Car Parks
- Crane cabs
- Laboratories

User Friendly

- · Ultra-clear backlit display
- · System status codes
- · Built-in audiovisual alarms
- · Intuitive menu system
- Simple pushbutton operation
- · Remote accept, reset and inhibit inputs

Easy to Install

- . TS35 ('top hat') DIN rail mounting
- · Removable terminal connectors.
- Easy access to all terminals
- · Additional units clip together

Comprehensive Operation

- 3 wire mV bridge, 2 and 3 wire 4-20mA inputs
- DC operation
- · 3 x alarm relays
- 1 x system fault relay
- Field inhibit input (mA versions)

Flexible Operation

- Fully user programmable scale, units and calibration
- Relays configurable as energized, de-energized, latching or non-latching, alarm relay on/off delay
- · Compatible with a wide range of gas detectors

The Zareba Unipoint is a simple DIN rail mounted controller offering integrators a flexible and low cost solution to incorporate flammable, toxic or oxygen gas detection into their control systems.

Unipoint can be easily installed into any plastic or metal enclosure for use indoor or outdoors and even in potentially explosive atmospheres. With the addition of one of the Zareba range of flammable, toxic or oxygen detectors, systems may be configured to monitor gases in a wide range of applications from car parks and boiler houses to analyzer shelters or crane cabs in offshore facilities.



Two versions of Unipoint are available; one for mV bridge, catalytic bead type, flammable gas detector and the other for any 2 or 3 wire 4-20mA type gas detector. Each Unipoint is easily installed onto the DIN rail via a special socket (provided) that also interconnects power to adjacent units. With removable terminal connectors individual Unipoint controllers can be easily changed without disturbing other devices.

By clipping together multiple Unipoints small to medium sized monitoring solutions can be realized. Each unit includes built-in audiovisual alarms, three programmable alarm relays and a fault relay. Gas concentration and system status is displayed on the backlit LCD and each controller is fully user programmable via an intuitive, push button operated menu system. Configuration menus can be password protected to prevent unauthorized access. In addition remote inputs allow accept, reset and inhibit of alarms without the need to open the enclosure that the Unipoint is mounted in.

Unipoint's uncomplicated design makes it ideal for applications where a simple method of integrating gas detectors into a 3rd party control system is required or as part of a small standalone gas detection solution. All Honeywell Analytics gas detectors and third party detectors may be used with Unipoint subject to overall power requirements.

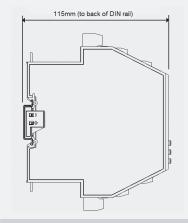
Installation details

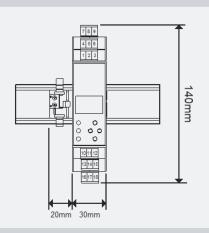




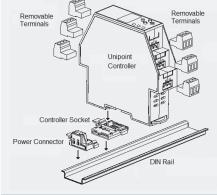


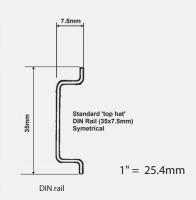
Dimensions





Installation





Terminal detail

1	+			
2	S	Detector		
3	-			
4	NO	Fault		
5	C			
6	NC			
7	R	Reset		
8	_	Inhibit		
9	U	Common		
10	NO			
11	C	Alarm 1		
12	NC			
13	NO			
14	C	Alarm 2		
15	NC			
16	NO			
17	С	Alarm 3		
18	NC			
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	2 S 3 - 4 NO 5 C 6 NC 7 R 8 I 9 C 10 NO 11 C 12 NC 13 NO 14 C 15 NC 16 NO 17 C		

Max number of controllers on one power rail

Detector type	Max number of controllers		
3 wire mV	8		
2 wire mA	8		
3 wire mA	4		

wiring of power rail in parallel allows larger systems to be constructed

Electrical

Type of Detector	Output to Detector	Recommended Detector
2 wire 4-20mA	Controller Input (18-32Vdc)-1.5Vdc*, 30mA (max). Sense resistor 33 Ohms.	Signalpoint or Sensepoint Toxic and Oxygen
3 wire 4-20mA source	Controller Input (18-32Vdc)-1.5Vdc*, 0.5A (max). Sense resistor 33 Ohms.	Sensepoint Plus and Sensepoint Pro
3 wire mV bridge	2.4-8.6V, 200mA constant current. Max cable loop resistance 28 0hms.	Signalpoint or Sensepoint Flammable

^{*}The detector supply voltage is 1.5Vdc less than the supply to the controller

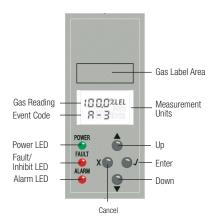
Controller Power Consumption

Unipoint Version	Controller Status	Relays		Power
		Fault	Alarm	
Normal operation, no faults, no alarms. Zero cable resistance		Energized	De energized	2.4W ¹
mV	Normal operation, no faults, no alarms. Max loop cable resistance (28 ohms)	Energized	De energized	3.6W ¹
	All alarms, no faults. Max cable resistance (28 ohms)	Energized	Energized	4.8W ¹
Normal operation, no faults, no alarms. Inclusive of 2 wire signal loop current		Energized	De energized	1.8W ²
mA	All alarms, no faults. Inclusive of 2 wire signal loop current	Energized	Energized	$3.0W^{2}$

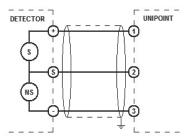
¹ includes power to detector ² excludes power to 3 wire mA detector. All controllers with default configuration.

Technical summary

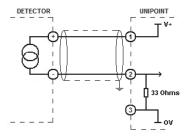




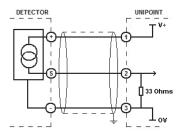
Detector Wiring Schematics



3 wire mV (e.g. Signalpoint and Sensepoint Flammable)



2 wire mA (e.g. Signalpoint and Sensepoint Toxic and Oxygen)



3 wire mA (e.g Sensepoint Plus and Pro all versions)

General Specification						
Use	The Zareba Unipoint controller provides integrators with a flexible and low cost solution to the many applications requiring flammable, toxic or oxygen gas detection to be incorporated into their control systems. Unipoint is designed to use industry standard DIN rail allowing it to be easily installed into many different types of plastic or metal, indoor or outdoor, hazardous or non hazardous area enclosures. It is designed for use with any mV flammable gas detector as well as any 2 or 3 wire 4-20mA gas detector (subject to overall power requirements).					
User interface						
Operation	Two pushbuttons for normal operation of resetting alarms and initiating self diagnostic test of systel Four buttons for user programmable functions via intuitive menu					
Backlit Display	Units of measure, digital gas reading and event code					
Other Indication	Ultra-bright steady/flashing LEDs subject to condition; alarm (red), power (green), fault (amber). In-built audible alarm 63dB at 0.3 meters					
Termination	Easily accessible plug in screw type terminals. Terminals accept maximum wire diameter 1.5mm² (16 AWG)					
Environmental						
IP Rating	Indoor, IP3x, to BS EN	60529:19	92 (controller to	be installed in	suitable e	enclosure)
Weight	225g (7.94 oz) - Conti	225g (7.94 oz) - Controller only				
Operating Temp Range	-10°C to +40°C / 14°F to 104°F					
Operating Humidity Range	10 to 90%RH (non cor	ndensing)				
Operating Pressure Range	90-110kPa	NOT 1	005 00 : 055	DUI /		
Storage	-25°C to +60°C / -13°F to +140°F, 20 to 80%RH (non condensing)					
Inputs	Naminal 04)/da (10, 0)	DV-I=\ M=-		0.01 (in almetic		-l-tt\ A - O OM
Supply	Nominal 24Vdc (18-32Vdc). Max power mV = 4.8W (including power to detector), mA= 3.0W (excluding power to 3 wire detector)					detector), ma= 3.0w
Detector Type	3 wire mV bridge e.g. Sensepoint or Signalpoint flammable gas detectors		2 wire, 4-20mA, loop powered e.g. Sensepoint or Signalpoint toxic or oxygen gas detectors		3 wire, 4-20mA, source output e.g. Sensepoint Plus and Pro flammable, toxic and oxygen gas detectors	
Detector Supply	2.4-8.6V, 200mA constant current. Maximum loop resistance: 28 0hms		Input (18-32Vdc)-1.5Vdc, 30mA max		Input (18-32Vdc)-1.5Vdc, 0.5A max	
Outputs						
Relays	Alarm 1	Alarm 2	2	Alarm 3		Fault
Rating	SPCO/3A, 240Vac/28Vdc (non inductive load)		BA, c/28Vdc ductive load)	SPCO/3A, 240Vac/28Vdc (non inductive load)		SPCO/3A, 240Vac/28Vdc (non inductive load)
Default Setting	Non Latching Normally de-energized Energize on alarm Factory setting 10%FSD	Normal de-ene Energiz Factory	Non Latching Lat Normally No de-energized de-		alarm	Non Latching Normally energized De-energize on fault/power loss
User Configurable Options	Latching/ non-latching Energized/ de-energized Alarm trip point Rising/falling Alarm on / off delay (0 to 900 seconds)*	Energiz de-ene Alarm t Rising/f Alarm d	latching non-latching		int f delay	Latching/ non-latching Energized/ de-energized
Approvals						
EMC/RFI	EN50270					
Electrical Safety	EN61010, UL61010b					
Performance	ATEX measuring function EN61779 (Independent accreditation expected late 2005)					
	CE, TUV					

 $^{^{\}star}$ Functionality only implemented in units supplied with software version 5V0. Available late 2005.