Ordering information





Ordering Information						
Controllers						
Unipoint Controller (mV input version)		2306B2000				
Unipoint Controller (mA input version)		2306B1000				
Spares						
Unipoint Terminal Block Plu		2306B3010				
Unipoint DIN rail socket kit		2306B3020				
Unipoint power connector kit		2306B3030				
Required controller type referen	ce:					
Detector	Gas Type	No. Wires	Controller Required			
Signalpoint	Flammable Toxic	3	mV			
Sensepoint	Flammable Toxic	3 2	mV mA			
Sensepoint Plus	Flammable Toxic	33	mA mA			
Sensepoint Pro	Flammable Toxic	3 3	mA mA			
Standard Supply	Each Unipoin	t controller is supplied complete with DI	N rail socket, power connector,			
gas type stickers and instruction manual.						
Shipping Details	11 0	Shipping carton dimensions: H197mm (7.8") x W275mm (10.8") x D36mm (1.4") Approximate weight: 420g (14.8oz)				



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



Find out more

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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 paperbased 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

Europe, Middle East, Africa

Life Safety Distribution AG Wilstrasse 11-U31 CH-8610 Uster Switzerland Tel: +41 (0)44 943 4300 Fax: +41 (0)44 943 4398 gasdetection@honeywell.com

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



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

Asia Pacific

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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.



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



Terminal detail





Installation





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 Ohms.	Signalpoint or Sensepoint Flammable

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

Controller Power Consumption

Unipoint Version	int Version Controller Status		Relays	
		Fault	Alarm	
	Normal operation, no faults, no alarms. Zero cable resistance	Energized	De energized	2.4W1
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
mA	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 n Four buttons for user p	Two pushbuttons for normal operation of resetting alarms and initiating self diagnostic test of system. Four buttons for user programmable functions via intuitive menu					
Backlit Display	Units of measure, digit	al gas read	ding 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 (16 AWG)	screw type :	terminals. Termi	nals accept maxim	num wire c	liameter 1.5mm ²	
Environmental							
IP Rating Weight	Indoor, IP3x, to BS EN 225g (7.94 oz) - Contr		92 (controller t	to be installed in	suitable e	enclosure)	
Operating Temp Range	-10°C to +40°C / 14°		-				
Operating Humidity Range	10 to 90%RH (non condensing)						
Operating Pressure Range	90-110kPa						
Storage	-25°C to +60°C / -13	°F to +14	0°F, 20 to 80%	6RH (non conder	nsing)		
Inputs							
Supply	Nominal 24Vdc (18-32Vdc). Max power mV = $4.8W$ (including power to detector), mA= $3.0W$ (excluding power to 3 wire detector)						
Detector Type	3 wire mV bridge e.g. Sensepoint or Signalpoint flammable gas detectors	2 wire, 4-20m powered e.g. ble or Signalpoint oxygen gas de		Sensepoint output output toxic or Plus an		4-20mA, source e.g. Sensepoint d Pro flammable, nd oxygen gas rs	
Detector Supply			Input (18-32 30mA max	2Vdc)-1.5Vdc, Input (0.5A n		18-32Vdc)-1.5Vdc, nax	
Outputs							
Relays	Alarm 1	Alarm 2	<u>)</u>	Alarm 3		Fault	
Rating	SPCO/3A, 240Vac/28Vdc (non inductive load)	SPCO/3 240Vac (non inc	,	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	Non Lat Normall de-ener Energize Factory 25%FS	y rgized e on alarm setting	Latching Normally de-energized Energize on alarm Factory setting 50%FSD		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)*	Latching/ non-latching Energized/ de-energized Alarm trip point Rising/falling Alarm on / off delay (0 to 900 seconds)*		Latching/ non-latching Energized/ de-energized Alarm trip point Rising/falling Alarm on / off delay (0 to 900 seconds)*		Latching/ non-latching Energized/ de-energized	
Approvals							
EMC/RFI	EN50270						
Electrical Safety	EN61010, UL61010b						
Performance	ATEX measuring function EN61779 (Independent accreditation expected late 2005)						
Other	CE, TUV						

* Functionality only implemented in units supplied with software version 5V0. Available late 2005.