Unipoint controller

Honeywell

The Unipoint, a simple
DIN rail mounted controller

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LTC-Glodok Lt. 1 Blok B17 No. 1-3
Jl. Hayam Wuruk No. 127, Taman Sari,
Jakarta Barat, DKI Jakarta, Indonesia

Unipoint DIN Controller

The 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.

Typical Applications
- Small and medium integrated systems
- Custom control cabinets and panels
- Unmanned equipment rooms
- Boiler houses
- HVAC systems
- Analyser 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 energised, de-energised, latching or non-latching, alarm relay on/off delay
- Compatible with a wide range of gas detectors

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 Honeywell Analytic's 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 analyser 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 realised. 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 unauthorised 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.
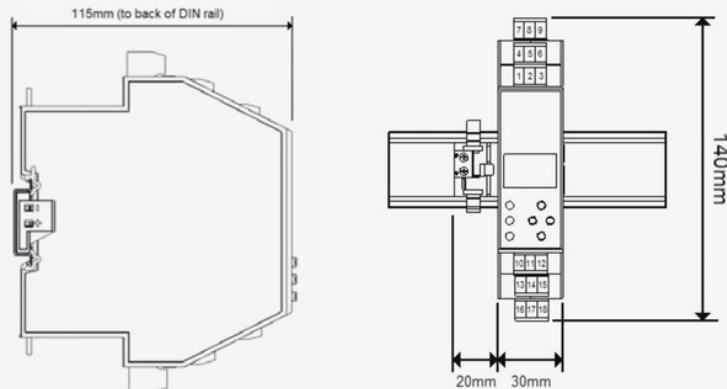
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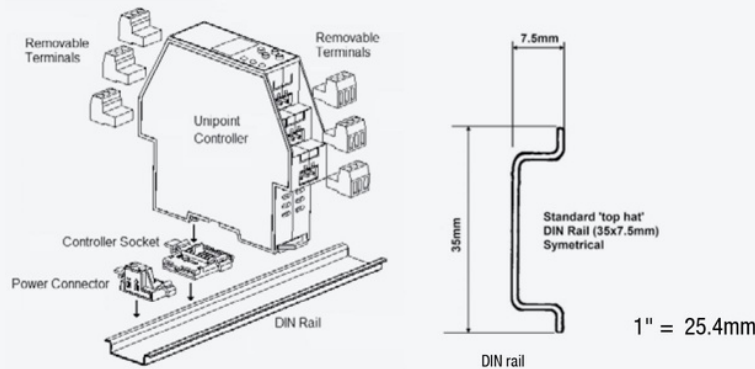**www.marinemaju.com**

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Dimensions

115mm (to back of DIN rail)

140mm

20mm 30mm

Terminal Detail

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

Installation

Removable Terminals

Unipoint Controller

Controller Socket

Power Connector

DIN Rail

7.5mm

35mm

Standard 'top hat' DIN Rail (35x7.5mm) Symetrical

1" = 25.4mm

DIN rail

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
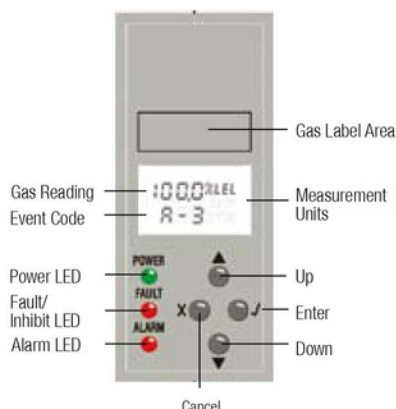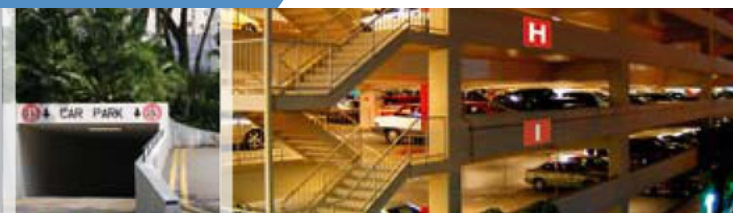
Controller Power Consumption

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

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

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Technical Summary

Gas Label Area
Gas Reading
Event Code
Measurement Units
Power LED
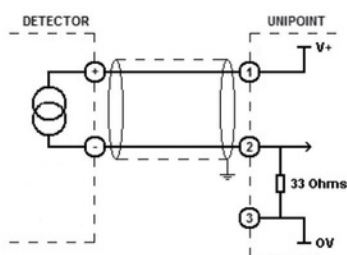Fault/Inhibit LED
Alarm LED
POWER
FAULT
ALARM
X
Up
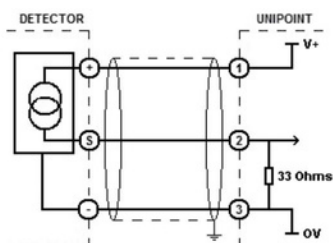Enter
Down
Cancel

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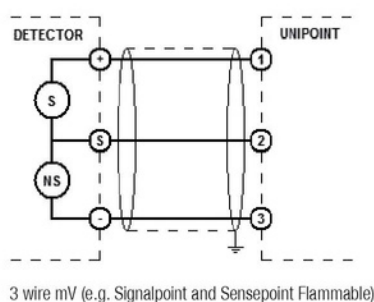
3 wire mV (e.g. Signalpoint and Sensepoint Flammable)

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 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 system. 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 1.5mm^2 (16 AWG)

Environmental	
IP Rating	Indoor, IP3x, to BS EN 60529:1992 (controller to be installed in suitable enclosure)
Weight	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 condensing)
Operating Pressure Range	90-110kPa
Storage	-25°C to +60°C / -13°F to +140°F, 20 to 80%RH (non condensing)

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, 4-20mA, 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 Ohms	Input (18-32Vdc)-1.5Vdc, 30mA max	Input (18-32Vdc)-1.5Vdc, 0.5A max

Outputs				
Relays	Alarm 1	Alarm 2	Alarm 3	Fault
Rating	SPCO/3A, 240Vac/28Vdc (non inductive load)	SPCO/3A, 240Vac/28Vdc (non inductive load)	SPCO/3A, 240Vac/28Vdc (non inductive load)	SPCO/3A, 240Vac/28Vdc (non inductive load)
Default Setting	Non Latching Normally de-energised Energise on alarm Factory setting 10%FSD	Non Latching Normally de-energised Energise on alarm Factory setting 25%FSD	Latching Normally de-energised Energise on alarm Factory setting 50%FSD	Non Latching Normally energised De-energise on fault/power loss
User Configurable Options	Latching/ non-latching Energised/ de-energised Alarm trip point Rising/falling Alarm on/off delay (0 to 900 seconds)*	Latching/ non-latching Energised/ de-energised Alarm trip point Rising/falling Alarm on/off delay (0 to 900 seconds)*	Latching/ non-latching Energised/ de-energised Alarm trip point Rising/falling Alarm on/off delay (0 to 900 seconds)*	Latching/ non-latching Energised/ de-energised

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.

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Ordering information

Ordering Information

Controllers	
Unipoint Controller (mV input version)	2306B2000
Unipoint Controller (mA input version)	2306B1000

Spares	
Unipoint Terminal Block Plug (x2)	2306B3010
Unipoint DIN rail socket kit	2306B3020
Unipoint power connector kit	2306B3030

Required controller type reference:

Detector	Gas Type	No. Wires	Controller Required
Signalpoint	Flammable	3	mV
	Toxic	2	mA
Sensepoint	Flammable	3	mV
	Toxic	2	mA
Sensepoint Plus	Flammable	3	mA
	Toxic	3	mA
Sensepoint Pro	Flammable	3	mA
	Toxic	3	mA

Standard Supply	Each Unipoint controller is supplied complete with DIN rail socket, power connector, gas type stickers and instruction manual.
Shipping Details	Shipping carton dimensions: H197mm (7.8") x W275mm (10.8") x D36mm (1.4") Approximate weight: 420g (14.8oz)

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