



**The Touchpoint 4 controller provides protection of personnel and plant from flammable, toxic and oxygen gas hazards**

# Touchpoint 4 controller



## User Friendly

- Self-contained, wall mounted enclosure
- Ultra-clear backlit display
- Intuitive, icon driven, menu system
- Simple push button operation

## Easy to Install

- Unobtrusive slimline profile
- Mounting bracket included
- Easy access to all terminals
- Pre-formed knockouts for cable entry

## Flexible Operation

- Fully user programmable for scale, units and calibration
- Fully configurable relays
- Compatible with all Zareba gas detectors

## Common Module

- System status indication
- Built-in audiovisual alarms
- AC and/or DC power distribution
- Common gas and fault alarm relays
- Dedicated drive for up to three remote audible and visual alarms
- Input for remote reset push button
- RS485 interface

## Input Modules

- Accepts up to four channels
- mA and mV inputs for wide range of gas detectors
- Individual channel display
- Gas, range, reading and alarm status
- Two user programmable alarm relays
- Isolated 4-20mA output

**The Touchpoint 4 controller provides protection of personnel and plant from flammable, toxic and oxygen gas hazards when used with up to four Sensepoint gas detectors. Self-contained, fully user configurable and wall mounted, a Touchpoint 4 gas detection system can monitor gas hazards in a large area or several discrete locations from a convenient central site.**

Touchpoint 4 may be driven from AC and/or DC supplies and comprises a common display module with up to four individual channel modules. It is suitable for stand-alone operation or as part of a larger distributed control system via an integral RS485 interface. The common module, with backlit display, details the overall system status and includes common alarm relays, remote reset push button input and dedicated drives for up to three field mounted audible and visual alarms. A panel mounted audible and visual alarm is also included.

Input modules are available for use with 4-20mA and mV type gas detectors. Each channel includes a backlit display detailing gas type, measuring range, actual gas reading in both numeric and bar graph format as well as alarm status. Two user programmable alarm relays and a repeated 4-20mA signal proportional to the gas level monitored are included per channel.

The system is fully user programmable via the ultra-clear backlit displays and intuitive menu system. For example, relays may be configured as 'non-latching' (default is 'latching') so that outputs clear automatically on remote unmanned sites. Buttons used for configuration are hidden behind access panels to prevent tampering. A single button is available to all users on the front of the modules to perform a simple self-test or to reset alarms when needed.

The shallow profile is designed for easy location in corridors or reception areas where some larger controllers may be obtrusive. A wall mounting bracket is included to which the controller is attached to simplify installation. All cable entries are made using pre-formed knockouts at the bottom of the enclosure. The hinged front cover latches open to enable full and unhindered access to the terminal compartment for installers.

Event history is recorded as standard on all Touchpoint systems. Times and dates of alarms and power interruptions can be reviewed via the display to provide useful diagnostic information for service engineers and plant operators.

The Touchpoint 4 gas detection system provides comprehensive control of all your gas detection needs.



# Installation details



Touchpoint4 is designed for use in safe areas. Electrical installation should follow national guidelines using suitably approved cable and glands (M20 or 3/4"NPT) or conduit (3/4"NPT). Screened 0.5mm<sup>2</sup> (20AWG) to 2.5mm<sup>2</sup> (14AWG) cross sectional area cable should be used where appropriate to minimize unwanted effects from RF sources.

The Touchpoint 4 controller is designed to offer easy and convenient installation. The wall mounting bracket provided serves as a drilling template and enables the controller to be mounted without assistance.

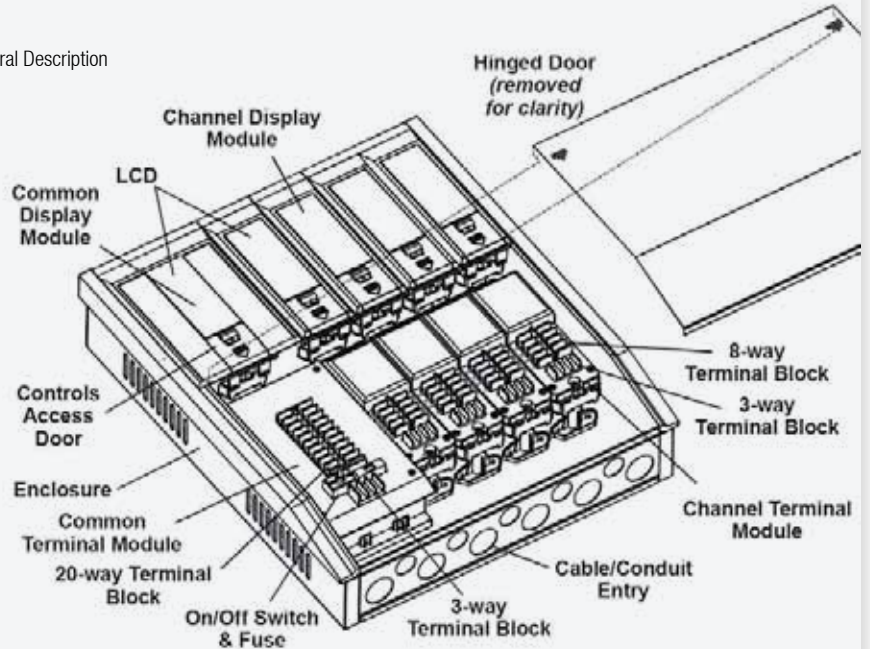
The hinged front cover may be latched open to ensure free and unhindered access to the large terminal compartment.

The pre-formed knockouts in the base offer both M20 and 3/4"NPT fittings enabling cable glands or conduit to be used during installation.

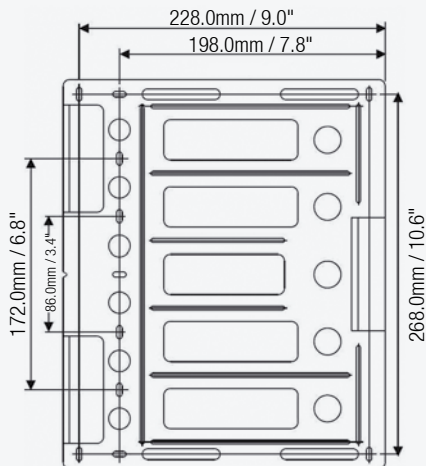
Dedicated audible/visual alarm drives are powered by the system thereby removing any need for secondary supplies.

## Mechanical

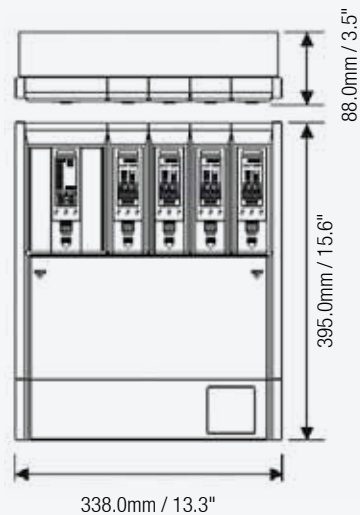
### General Description



### Mounting Bracket



### Dimensions

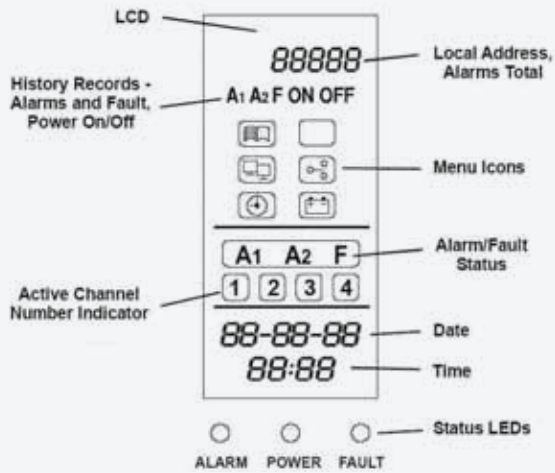


# Installation details

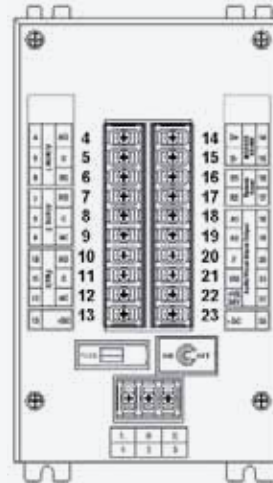


## Common Module

### Display



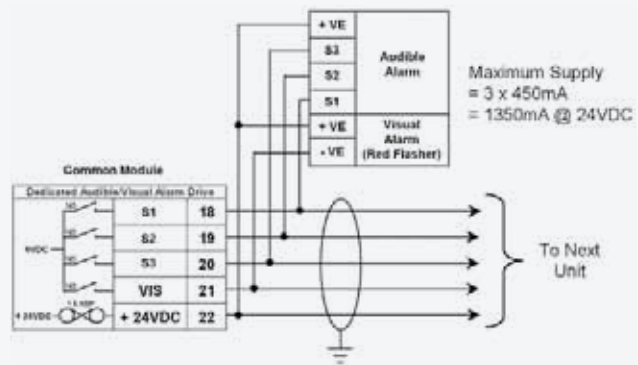
### Terminal Layout



### Connections

|    |           |  |
|----|-----------|--|
| 1  | (Live)    | AC Supply<br>85-265Vac, 50/60 Hz<br>160Wac Maximum |
| 2  | (Neutral) |  |
| 3  | (Earth)   |  |
| 4  | NO        | Alarm<br>Relay 1                                   |
| 5  | C         |  |
| 6  | NC        |  |
| 7  | NO        | Alarm<br>Relay 2                                   |
| 8  | C         |  |
| 9  | NC        |  |
| 10 | NO        | Fault<br>Relay                                     |
| 11 | C         |  |
| 12 | NC        |  |
| 13 | DC +      | DC Supply 19-32VDC<br>63 Wac Maximum               |
| 23 | DC -      |  |
| 14 | D +       | RS485<br>Link                                      |
| 15 | D -       |  |
| 16 | R1        | Remote<br>Reset                                    |
| 17 | R2        |  |
| 18 | S1        | Dedicated<br>Audible/Visual<br>Alarm Drive         |
| 19 | S1        |  |
| 20 | S3        |  |
| 21 | VIS       |  |
| 22 | +24VDC    |  |

### Dedicated Audible/Visual Alarm Drive



### Typical Audible & Visual Alarms

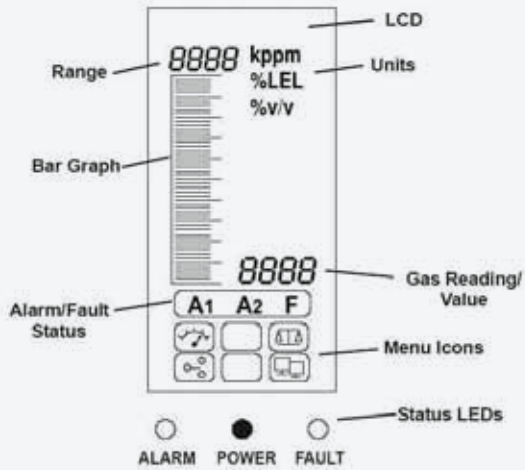


# Installation details

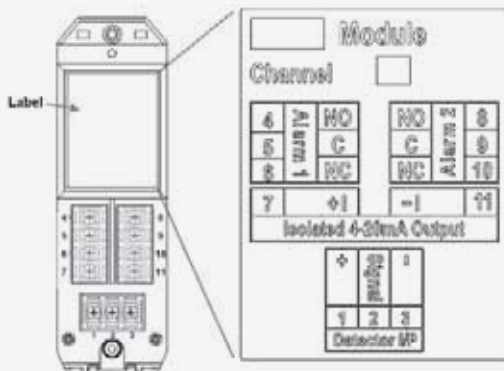


## Channel Module (mV or mA)

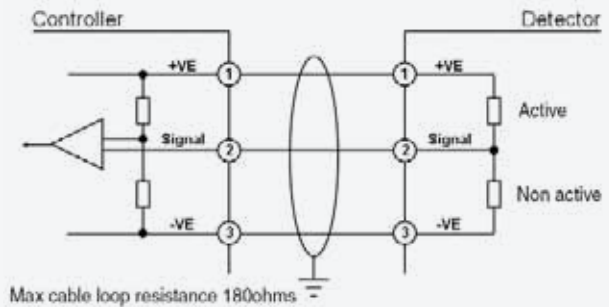
### Display



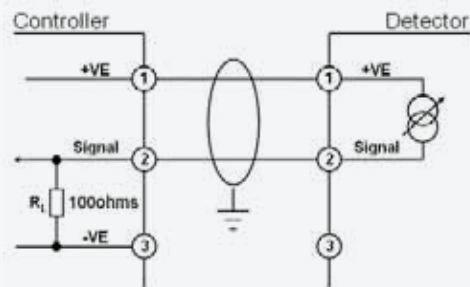
### Terminal Layout & Connections



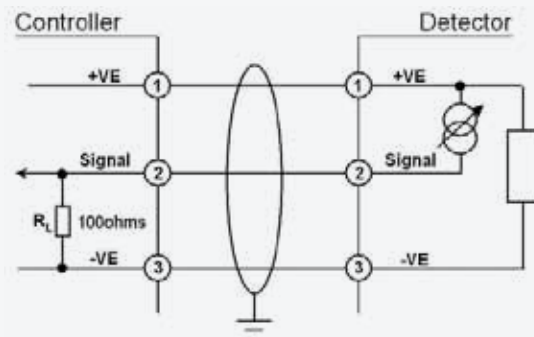
### Sensepoint - Flammable (mV)



### Sensepoint - Toxic & Oxygen (mA)



### Sensepoint Plus & Pro - All Versions (mA)



Refer to detector datasheets for full specification of field devices

# Technical summary

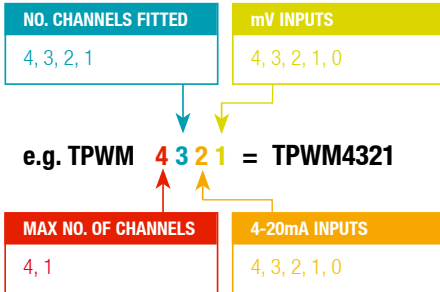


| General Specification            |   |  |  |
|----------------------------------|---|--|--|
| <b>Use</b>                       | Wall mounted 1 to 4 channel control panel for the local annunciation of gas hazards as detected by the Sensepoint range of gas detectors. Suitable for use as an indoor stand-alone, self-contained installation or as part of a larger distributed control system. |  |  |
| Common Operation of Modules      |   |  |  |
| <b>Operation</b>                 | Single "Test/Accept/Reset" push button for normal use. Three further hidden push buttons per module for configuration via intuitive menu system.  |  |  |
| <b>Backlit display</b>           | System and channel status including gas type, measuring range, units of measure, digital gas reading, bar graph display 0-100%FSD, system status indicators including alarm set point, alarm activated and power health.  |  |  |
| <b>Other indication</b>          | Ultra-bright LEDs: Alarm (red), power (green), fault (amber)  |  |  |
| <b>Audible alarm</b>             | 85dBA at 1m / 90dBA at 1 foot, user hush facility, re-activated on next event   |  |  |
| <b>Termination</b>               | Accessed via hinged front cover (latch to hold open as required). All cable/conduit entry via pre-formed knockouts at bottom of controller. Screw terminals suitable for 0.5mm <sup>2</sup> (20AWG) to 2.5mm <sup>2</sup> (14AWG). Crimped connection recommended.  |  |  |
| Environmental                    |   |  |  |
| <b>IP rating</b>                 | Indoor use, IP 44 in accordance with EN60529:1992   |  |  |
| <b>Weight</b>                    | 6kg (13.2lbs)   |  |  |
| <b>Operational</b>               | Temperature   | -10°C to +40°C / 14°F to 104°F   |  |
|                                  | Humidity  | 10 to 90%RH (non condensing)   |  |
|                                  | Pressure  | 90-110kPa  |  |
| <b>Storage</b>                   | -40°C to +80°C / -40°F to +176°F, 20 to 80%RH (non condensing)  |  |  |
| Common Module                    |   |  |  |
| <b>Supply</b>                    | 85-265Vac, 50/60Hz auto-sensing<br>19-32Vdc<br>Maximum power 160 Wac and/or 63Wdc   |  |  |
| <b>Communications</b>            | RS485, user configurable address and baud rate (1200, 2400, 4800, 9600, 19200)  |  |  |
| <b>Other</b>                     | Remote accept/reset push button, normally open, momentary close to activate   |  |  |
| <b>Relays</b>                    | Common Alarm 1 (A1)   | Common Alarm 2 (A2)  | System Fault (F)   |
| <b>Rating</b>                    | SPCO / 3A, 240VAC (non inductive load)  | SPCO / 3A, 240VAC (non inductive load)   | SPCO / 3A, 240VAC (non inductive load)   |
| <b>Default Setting</b>           | Latching<br>Normally de-energized<br>Energize on any A1 alarm   | Latching<br>Normally de-energized<br>Energize on any A2 alarm  | Latching<br>Normally energized<br>De-energize on fault/power loss                              |
| <b>User configurable options</b> | Latching/non-latching<br>Energized/de-energized   | Latching/non-latching<br>Energized/de-energized  | Latching/non-latching<br>Energized/de-energized  |
| Channel Module                   |   |  |  |
| <b>Number of Inputs</b>          | Up to four channel modules may be fitted to any system. mV and mA types available<br>Input modules are suitable for the following types of detector   |  |  |
| <b>Detector Type</b>             | 3 wire mV bridge  | 2 wire, 4-20mA, loop powered   | 3 wire, 4-20mA, source output  |
| <b>Example</b>                   | Sensepoint Flammable  | Sensepoint Toxic and Oxygen  | Sensepoint Plus or Sensepoint Pro  |
| <b>Detector Supply</b>           | mV Bridge Input Module<br>Constant current supply: 200mA<br>Self regulating supply voltage subject to cable resistance<br>Maximum loop resistance: 18 Ohms  | mA Input Module<br>Maximum detector current supply: 500mA<br>Minimum guaranteed supply voltage from the controller: 18Vdc<br>Input impedance: 100 Ohms |  |
| <b>Relays</b>                    | Alarm 1 (A1)  |  | Alarm 2 (A2)   |
| <b>Rating</b>                    | SPCO / 3A, 240VAC (non inductive load)  |  | SPCO / 3A, 240VAC (non inductive load)   |
| <b>Default setting</b>           | Latching, Normally de-energized<br>Energize on alarm, Factory setting 20%FSD  |  | Latching, Normally de-energized<br>Energize on alarm, Factory setting 40%FSD                   |
| <b>User configurable options</b> | Latching/non-latching, Energized/de-energized<br>Rising/falling (Oxygen), Trip point 10-90%FSD  |  | Latching/non-latching, Energized/de-energized<br>Rising/falling (Oxygen), Trip point 10-90%FSD |
| <b>Other</b>                     | Isolated 4-20mA output proportional 0-100%FSD   |  |  |

# Ordering information



## Ordering Information



## For reference only

| Detector        |           | Input Module Required | Wires |
|-----------------|-----------|-----------------------|-------|
| Sensepoint      | Flammable | mV                    | 3     |
|                 | Toxic     | mA                    | 2     |
| Sensepoint Plus | Flammable | mA                    | 3     |
|                 | Toxic     | mA                    | 3     |
| Sensepoint Pro  | Flammable | mA                    | 3     |
|                 | Toxic     | mA                    | 3     |

### Notes

- No Channels Fitted Max No. Channels
- No Channels Fitted = 4-20mA Inputs + mV Inputs

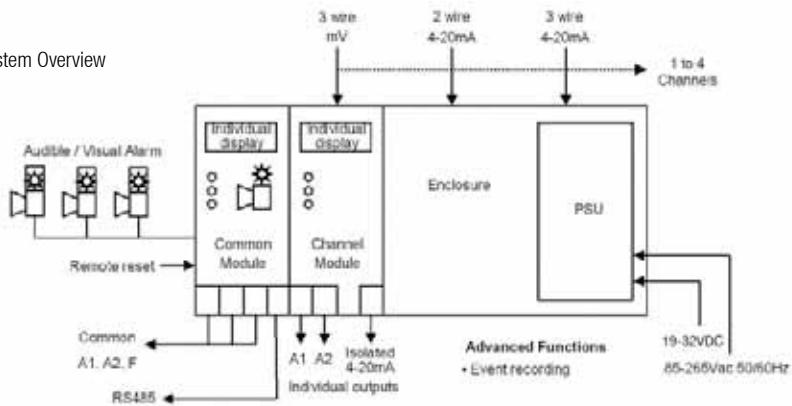
### Standard Supply

Each Touchpoint controller is supplied complete with mounting bracket, instruction manual and requisite number of mV and mA input modules with factory default settings

### Shipping Details

Shipping carton dimensions: L446mm (17.6") x W417mm (16.4") x D90mm (3.5") Approximate weight: 6kg (13.2lbs)

### System Overview



Relays rated 3A, 240Vac



# Our Product Range



## Fixed Gas Monitoring

Honeywell Analytics offers a wide range of fixed gas detection solutions for a diverse array of industries and applications including: Commercial properties, industrial applications, semiconductor manufacturers, energy plants and petrochemical sites.

- » Detection of flammable, oxygen and toxic gases (including exotics)
- » Innovative use of 4 core sensing technologies – paper tape, electrochemical cell, catalytic bead and infrared
- » Capability to detect down to Parts Per Billion (ppb) or Percent by Volume (%v/v)
- » Cost effective regulatory compliance solutions

## Portable Gas Monitoring

When it comes to personal protection from gas hazards, Honeywell Analytics has a wide range of reliable solutions ideally suited for use in confined or enclosed spaces.

These include:

- » Detection of flammable, oxygen and toxic gases
- » Single gas personal monitors – worn by the individual
- » Multi-gas portable gas monitors – used for confined space entry and regulatory compliance
- » Multi-gas transportable monitors – used for temporary protection of area during site construction and maintenance activities

## Technical Services

At Honeywell Analytics, we believe in the value of great service and customer care. Our key commitment is providing complete and total customer satisfaction. Here are just a few of the services we can offer:

- » Full technical support
- » Expert team on hand to answer questions and queries
- » Fully equipped workshops to ensure quick turnaround on repairs
- » Comprehensive service engineer network
- » Training on product use and maintenance
- » Mobile calibration service
- » Customised programmes of preventative/corrective maintenance
- » Extended warranties on products





Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.