Touchpoint 1

Honeywell

The Touchpoint 1 controller provides 24 hour protection from flammable, toxic or Oxygen gas hazards.

The Touchpoint 1 controller when used with any one of the Sensepoint range of gas detectors provides 24 hour protection from flammable, toxic or Oxygen gas hazards. With executive outputs to shutdown process equipment or drive warning devices, the Touchpoint 1 is ideal for continuous monitoring of small remote sites where it is inappropriate or costly to monitor the area from a central location.

User Friendly
- Self-contained, wall mounted enclosure
- Ultra-clear backlit display
- Built-in audiovisual alarms
- Intuitive menu system
- Simple push button operation

Easy to Install
- Unobtrusive slimline profile
- Mounting bracket included
- Easy access to all terminals
- Pre-formed knockouts in gland plate

Comprehensive Operation
- 3 wire mV bridge, 2 and 3 wire 4-20mA inputs
- AC and/or DC operation
- 2 x alarm relays
- 1 x system fault relay
- Repeated 4-20mA signal

Flexible Operation
- Fully user programmable for scale, units and calibration
- Relays configurable as energised, de-energised, latching or non-latching
- Compatible with all Sensepoint gas detectors

The shallow profile is designed for convenient 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, thereby simplifying installation. All cable entries are made via a gland plate at the bottom of the enclosure which includes pre-defined knockouts to minimise risk of damaging the connection terminals. The hinged front cover latches open to enable full and unhindered access to the terminal compartment for installers.

AC and/or DC driven, the Touchpoint 1 includes built-in audiovisual alarms, two programmable alarm relays and a system fault relay as well as an isolated 4-20mA output proportional to the input from the field device. The system is fully user programmable via the ultra-clear backlit LCD 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 an access panel to prevent tampering. A single button is available to all users on the front of the controller to perform a simple self-test or to reset alarms if needed.

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

A Honeywell Analytics' gas detection system is designed to offer a total solution for your gas monitoring needs. Manufactured to the highest quality standards, you are assured of being surrounded by gas detection equipment you can trust.

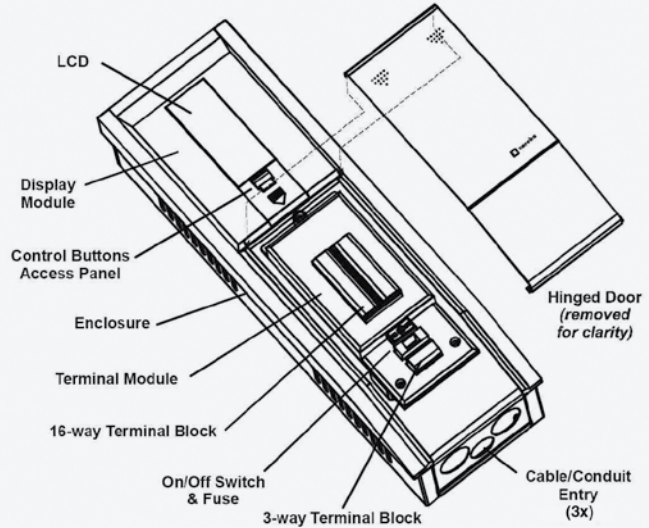# Installation Details

Installation Details

Touchpoint 1 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^2 (20AWG) to 2.5mm^2 (14AWG) cross sectional area cable should be used where appropriate to minimise unwanted effects from RF sources.

The Touchpoint 1 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.
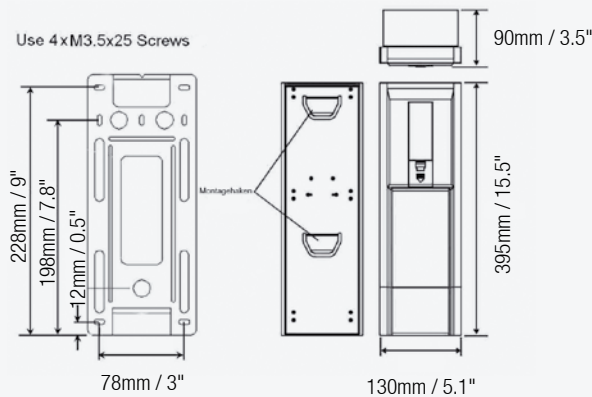
The hinged terminal cover can be latched open to provide free and unhindered access to all terminals with plenty of space for all wiring.

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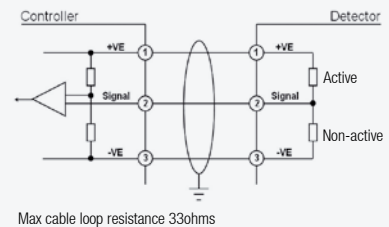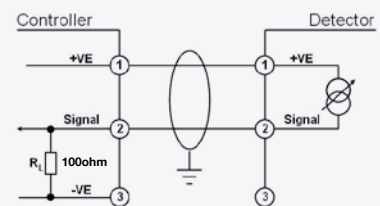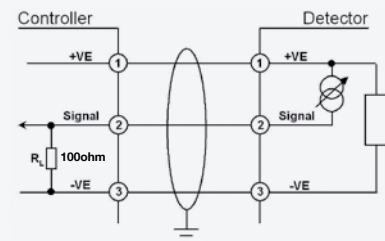
System Highlights

- LCD
- Display Module
- Control Buttons Access Panel
- Enclosure
- Terminal Module
- 16-way Terminal Block
- On/Off Switch & Fuse
- 3-way Terminal Block
- Hinged Door (removed for clarity)
- Cable/Conduit Entry (3x)

Dimensions

Use 4 x M3.5x25 Screws

228mm / 9"
198mm / 7.8"
12mm / 0.5"
78mm / 3"
90mm / 3.5"
395mm / 15.5"
130mm / 5.1"

Montagehaken

Terminal Layout

4, 5, 6, 7, 8, 9, 10, 11
12, 13, 14, 15, 16, 1, 2, 3

FUSE

17 18 19

Connections

1	+VE	Detector Connections
2	SIGNAL	
3	_VE	
4	NO	Alarm Relay 1
5	C	
6	NC	
7	NO	Fault Relay
8	C	
9	NC	
10	DC+	DC Supply 18-32VDC
11	DC_	
12	NO	Alarm Relay 2
13	C	
14	NC	
15	+VE	Isolated 4-20mA Output
16	VE	
17	(L)ive	AC Supply 85-265Vac 50/60Hz
18	(N)eutral	
19	(E)arth	

Sensepoint Flammable

Controller — Detector
+VE — 1 — +VE
Signal — 2 — Signal — Active
-VE — 3 — -VE — Non-active

Max cable loop resistance 33ohms

Sensepoint Toxic & Oxygen

Controller — Detector
+VE — 1 — +VE
Signal — 2 — Signal
R_L 100ohm
-VE — 3

Sensepoint Plus & Pro (all versions)

Controller — Detector
+VE — 1 — +VE
Signal — 2 — Signal
R_L 100ohm
-VE — 3 — -VE

General Specification

Use	Wall mounted single channel control panel for the local annunciation of gas hazards as detected by the range of Sensepoint gas detectors. Suitable for small scale, indoor installations requiring a-self contained gas detection and control system

User Interface

Operation	Single 'Test/Accept/Reset' push button for normal use. Three further hidden push buttons for configuration via intuitive menu system
Backlit Display	Gas type, measuring range, units of measure, digital gas reading, bar graph display 0-100% FSD, alarm set point indicator, alarm activated indicator, power status indicator and system status indicator
Other Indication	Three ultra-bright LEDs indicating alarm (red), power (green) and fault (amber) status
Audible Alarm	85dBA at 1m / 90dBA at 1 foot, user hush facility, re-activated on new event
Termination	Accessed via hinged front cover (latch to hold open as required). All cable/conduit entry via pre-formed knockouts in gland plate at bottom of controller. Screw terminals suitable for use with 0.5mm^2 (20AWG) to 2.5mm^2 (14AWG) wires. Crimped connection recommended

Environmental

IP Rating	Indoor use, IP44 in accordance with EN60529:1992
Weight	2.5kg / 5.5lbs (approx.)
Operating Temp Range	-10°C to +40°C / 14°F to 104°F Intermittent to +50°C / 122°F
Operating Humidity Range	10 to 90%RH (non condensing)
Operating Pressure Range	90-110kPa
Storage	-40°C to +80°C / -40°F to +176°F, 20 to 80%RH (non condensing)

Inputs

Supply	85-265Vac, 50/60Hz auto-sensing 18-32Vdc Maximum power = 30Wac / 15Wdc		
Detector Type	3 wire mV bridge e.g. Sensepoint flammable gas detectors	2 wire, 4-20mA, loop powered e.g. Sensepoint toxic and Oxygen gas detectors	3 wire, 4-20mA, source output e.g. Sensepoint Plus and Sensepoint Pro flammable, toxic and Oxygen gas detectors
Detector Supply	mV Bridge Input Module Constant current supply: 200mA Self regulating supply voltage subject to cable resistance Maximum loop resistance: 18 Ohms	mA Input Module Maximum detector current supply: 500mA Minimum guaranteed supply voltage from the controller: 18Vdc Input impedance: 100 Ohms	

Outputs

Relays	Alarm 1	Alarm 2	Fault
Rating	SPCO / 3A, 240VAC (non inductive load)	SPCO / 3A, 240VAC (non inductive load)	SPCO / 3A, 240VAC (non inductive load)
Default Setting	Latching Normally de-energised Energise on alarm Factory setting 20%FSD	Latching Normally de-energised Energise on alarm Factory setting 40%FSD	Latching Normally energized De-energise on fault or loss of power
User Configurable Options	Latching/non-latching Energised/de-energised Rising/falling (Oxygen) Trip point 10-90%FSD	Latching/non-latching Energised/de-energised Rising/falling (Oxygen) Trip point 10-90%FSD	Latching/non-latching Energised/de-energised
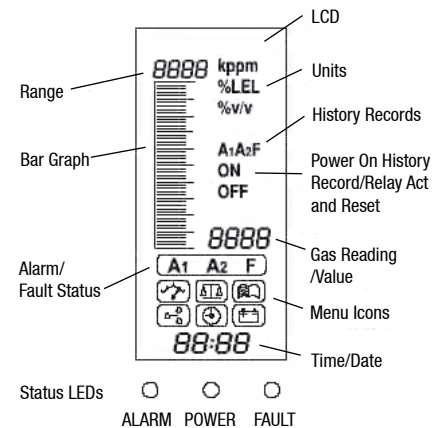
Installation Details

Ordering Information

TPWM1110	Single channel system with mA input module
TPWM1101	Single channel system with mV input module

For Reference Only

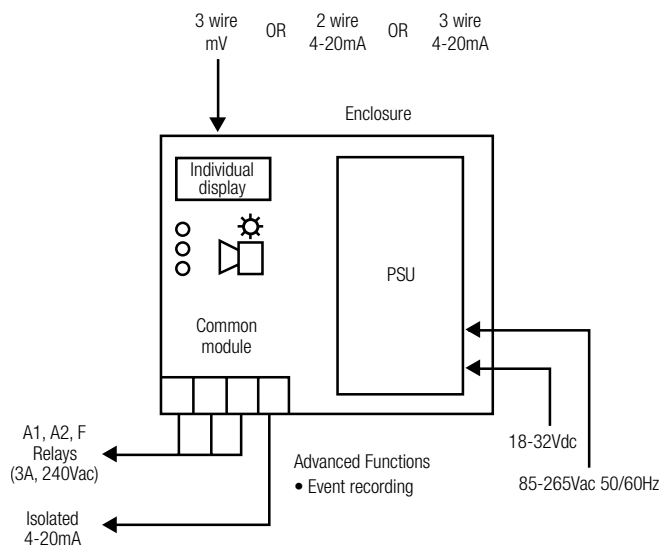| Detector	Gas Type	No. Wires	Input Module Required
Signalpoint	Flammable	3	mV
	Toxic	2	mA
Sensepoint	Flammable	3	mV
	Toxic	2	mA
Sensepoint Plus	Flammable	3	mA
	Toxic	3	mA
Sensepoint Pro	Flammable	3	mA
	Toxic	3	mA

Standard Supply	Each Touchpoint controller is supplied complete with mounting bracket, instruction manual and configured mV or mA input module with factory default settings
Shipping Details	Shipping carton dimensions: L446mm (17.6") x W207mm (8.1") x D183mm (7.2") Approximate weight: 2.8kg (6.2lbs)

System Overview

3 wire mV OR 2 wire 4-20mA OR 3 wire 4-20mA

Enclosure

Individual display

PSU

Common module

A1, A2, F Relays (3A, 240Vac)

Isolated 4-20mA

Advanced Functions
• Event recording

18-32Vdc

85-265Vac 50/60Hz

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

Find out more

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