



Fully configurable, robust & economical multi-channel gas detection system

Overview



Feature

Easy to Use

- Clear & large LCD colour touch screen
- Simplified and intuitive Graphic User Interface
- Minimal training required

Reliable

- High availability
- Dust & water proof enclosure
- Robust modular design
- Self-diagnostics
- International approvals

I/O capability

- mA, mV, Relay
- Up to 8 inputs (basic)
- 24 configurable outputs

Flexible Operation

- Modular
- Data logging
- Built-in battery backup
- Multi-language

Touchpoint Plus is an advanced touchscreen digital controller designed for use in a wide range of general industries. Touchpoint Plus can accommodate up to eight inputs and twenty four outputs.

With Touchpoint Plus, you can create a gas detection system that meets your needs — with easy ordering, simple installation and quick commissioning. You can feel totally confident that you have a safe, reliable and compliant gas detection system — protecting your workers and enhancing plant safety and productivity.



TouchPoint Plus can accommodate the complete range of Honeywell milliamp transmitters and millivolt (catalytic) gas sensor inputs as well as generic mA analogue inputs. It can also be used to interface with various output devices, such as audible/visual alarms, actuators and other host monitoring systems.

The enclosure has a constructed from high-impact polymer plastic and is fully-sealed & hinged front cover for easy access. Designed for wall mounting, TouchPoint Plus can be directly installed to any solid vertical surface. Connections to sensors, power supply and output devices is achieved via multiple cable entries at the bottom of the unit.

Touchpoint Plus is rated IP65, which means that it is dustproof and resistant to ingress from water spray. This makes it particularly suited to a wide range of industrial applications.

Typical Applications



Industrial Manufacturing



Chemical Plant



Power Plant



Water & Waste Treatment



Utilities



Printing/Coating



Pharmaceutical



Bottling

Overview

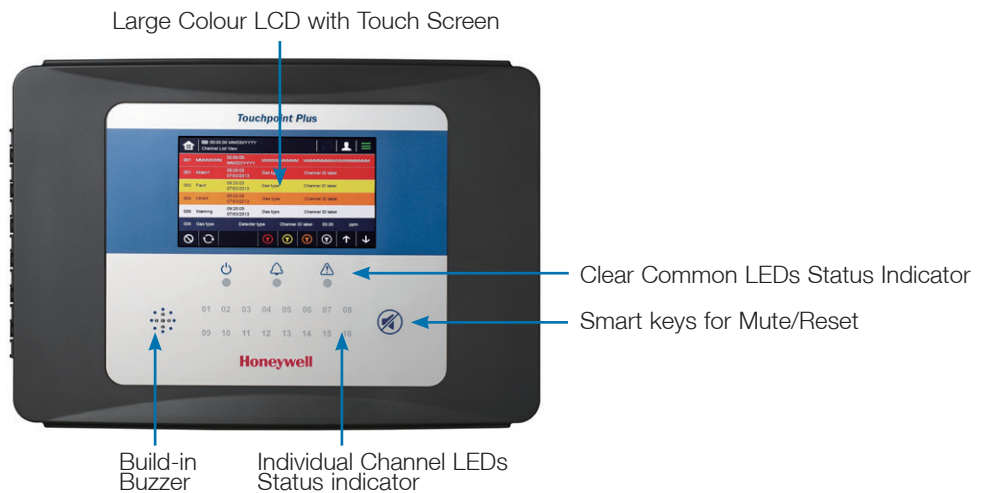


Front Panel View

Touchpoint Plus is a self-contained system, with a large colour LCD touchscreen, that allows users to configure all input & output parameters.

Touchpoint Plus provides complete visibility of gas hazards in your plant through localised audible and visual indications.

Easy access to mute and reset the audible and visual alarms is provided using the "Smart-Key" pushbutton.

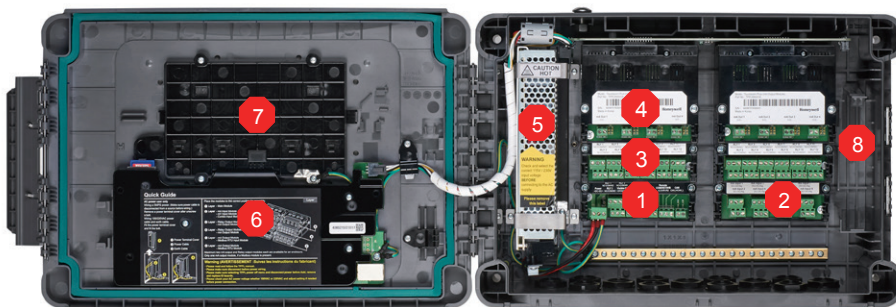
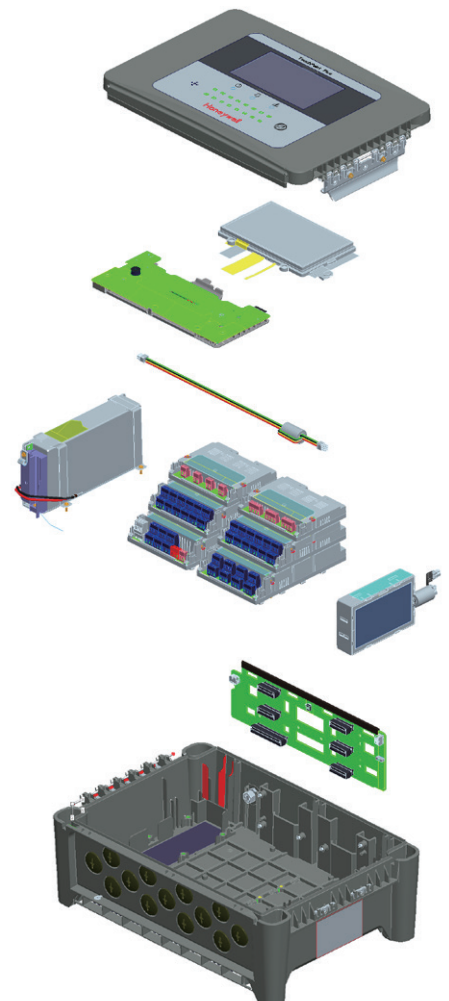


Exploded Internal View

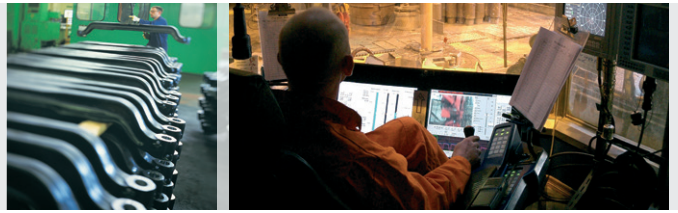
The standard design of Touchpoint Plus makes system ordering, installation and commissioning easy.

Choose from two, four or eight mA or mV channels, twelve or twenty-four relays, four or eight mA outputs to build the most reliable 8 channel controller on the market.

1. Main module
2. Input Module
3. Relay output Module
4. mA output Module
5. Power supply
6. Display module
7. Touch Screen
8. Backup Battery

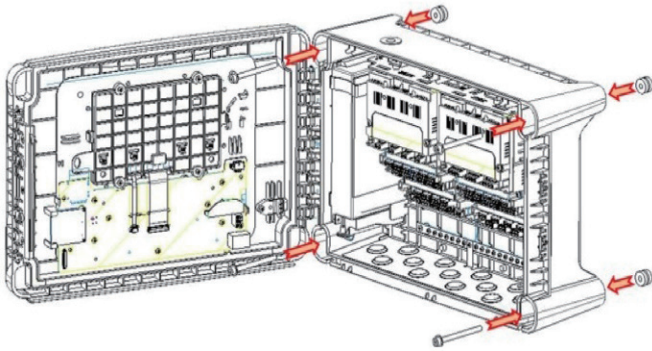


Installation & Wiring

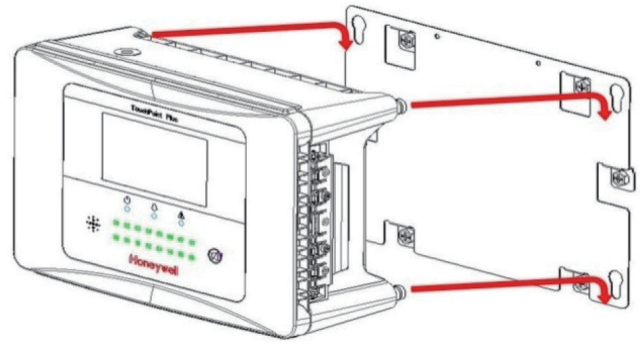


Installation

Direct Surface Mounting



Optional Mounting Plate

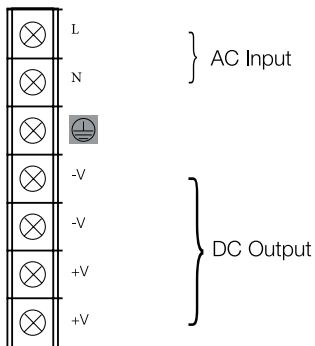


Wiring Detail

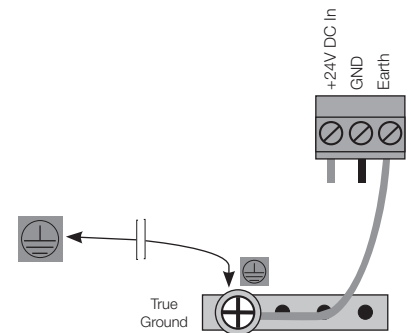
Power Connection

Touchpoint Plus is factory set to a supply voltage of 110/220VAC 50 to 60 Hz supply (110VAC switchable). The system can also be wired to a 18 ~ 32VDC external power supply. Typical peak power consumption is less than 105W.

AC Power Supply (SMPS) Connections

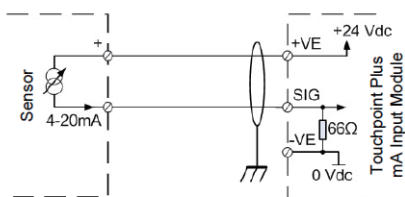


DC 24V Power Supply Connections

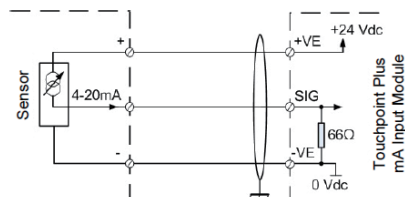


Note: Mains Earth (Ground) must only be connected to the Protective Earth (Ground) rail, and not to the Switch Mode Power Supply (SMPS).

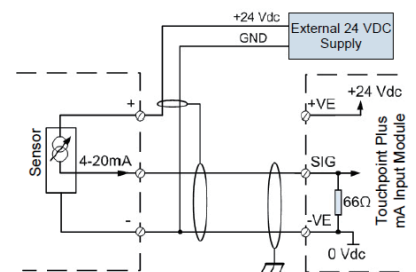
Sensor Connection



2-wire Loop Powered



3-wire CURRENT SOURCE



3-wire Externally Powered

Installation & Wiring



Main Module Connections

Label	Channel
+DC	Power
–DC	
~	
NC	System State Relay 1
COM	
NO	
NC	System State Relay 2
COM	
NO	
NC	System State Relay 3
COM	
NO	
+24Vdc	Dedicated alarm
VIS	
Unused	
A1	
A2	
F	
+24Vdc	
+24Vdc	
+24Vdc	
3.3Vdc	
R1	Remote inputs
R2	
CAN_H	Expansion Unit Connection
CAN_L	

Relay Output Module Connections

Label	Channel
NC	1
COM	
NO	
NC	2
COM	
NO	
NC	3
COM	
NO	
NC	4
COM	
NO	
NC	5
COM	
NO	
NC	6
COM	
NO	
NC	7
COM	
NO	
NC	8
COM	
NO	
NC	9
COM	
NO	
NC	10
COM	
NO	
NC	11
COM	
NO	
NC	12
COM	
NO	

mA Input Module Connections

Label	Channel
+VE	1
–VE	
Sig	
+DC	2
–DC	
Sig	
+DC	3
–DC	
Sig	
+DC	4
–DC	
Sig	
+DC	5
–DC	
Sig	
+DC	6
–DC	
Sig	
+DC	7
–DC	
Sig	
+DC	8
–DC	
Sig	

mV Input Module Connections

Label	Channel
S	1
01	
NS	
+VE	2
Signal	
–VE	
+VE	3
Signal	
–VE	
+VE	4
Signal	
–VE	
+VE	5
Signal	
–VE	
+VE	6
Signal	
–VE	
+VE	7
Signal	
–VE	
+VE	8
Signal	
–VE	

mA Output Module Connections

Label	Output
I+	mA out 1
I-	
I+	mA out2
I-	
I+	mA out3
I-	
I+	mA out4
I-	

Technical Specification



General Specification

Capacity	Up to 8 channel base
Type of inputs	2 or 3 wires, mA, mV.
Size (wall-mounted version)	426mm × 300mm × 156mm
Housing Material	Polycarbonate ABS
Weight	Max 8.5kg

UI

Display	7" colour LCD touch screen. Graphic User Interface
Visual indicators	3 LEDs for Master indicators. LED for each channel. Green: Normal, Yellow : Fault, and Inhibit and Red: Alarm
Audible alarm	>=70dB @ 1M
Button	Common for Reset/Mute operation
Language	Multi Language

Power Supply

Power AC	220VAC/240VAC. 50HZ~60HZ (manual switch for 110VAC operation)
Power DC	18 to 32 VDC (+/-10%)Typical 24VDC
Power Consumption	Max 105W (Included detector and external devices)

Environmental

Operating temperature	-10°C to +55°C (14°F to +131°F) continuous.
Storage temperature	Instrument -20°C to +60°C (-4°F to +158°F)
Humidity range	up to 95% RH (non-condensing)
Ingress protection	IP65

I/O Capacity

4~20mA Input	2 or 3 wire. 2/4/8 channel modules.
mV Input	Catalytic type flammable gas detectors (Honeywell models). 2/4/8 channel modules
Dual Input	Dedicated for external Audible/Visible, A1, A2 and Fault. 300mA@24VDC
Relay Output	User configurable. time delay ON/OFF. 5A@250VAC. 5A@30VDC. 12 relays per module
4~20mA Output	4 Channel module (x2). 0 to 22mA (4 to 20mA=0-100% scale)

Certifications

Electrical Safety	Compliant with UL/IEC/EN61010-1, UL 508 and CSA 22.2 No152 (cUL)
EMC/RFI	Compliant with EMC Directive (EN 50270:2015)
Battery Pack	Compliant with UN 38.3 and UL 2054
Performance	CSA 22.2 no152

Others

Backup Battery	Typical 0.5 hr operation for controller and sensors (2600mAh)
Data logging	Configuration, logged events and data (through SD memory card, up to 999 events).

Ordering Information



1. Touchpoint Plus Basic Unit

Standard Supply: Touchpoint Plus basic unit is supplied with pre-assembled I/O modules, 7" colour LCD, touch screen, industrial enclosure, power supply, back plane, 13 cable entries with blanking plugs, earth terminals, multi-lingual quick start guide, certificate of inspection & test (including system configuration information), tool set for access security screw, and instruction manual CD. Units are 100% inspected prior to despatch from the factory.

Wall Mount Enclosure

TPPLBAWAN	Wall Mount TPPL with AC power
TPPLBAWDN	Wall Mount TPPL with DC power

2. Touchpoint Plus I/O Modules

Standard Supply: Touchpoint Plus input/output module is supplied complete with modules & bracket, mounting screws, quick start guide, certificate of inspection & test. Each module is 100% tested prior to despatch from the factory in complete unit.

Wall Mount Enclosure

TPPLMAAI2	2 X mA Input Module (1st F)
TPPLMAAI4	4 X mA Input Module(1st F)
TPPLMAAI8	8 X mA Input Module(1st F)
TPPLMAVI2	2 X mV Input Module(1st F)
TPPLMAVI4	4 X mV Input Module(1st F)
TPPLMAVI8	8 X mV Input Module (1st F)
TPPLMAROC	12 X Relay Output Module
TPPLMAA04	4 X mA Output Module



3. Optional Accessories

Accessories

TPPLSIBB	Backup battery pack
TPPLSOWMB	Wall Mounting Bracket
TPPLMGND	Metal grounding for cable gland
TPPLGLD	Cable gland
TPPLSDC	SD Card

4. Spares

TPPLSDPM	UI PCB Module
TPPLSMPM	Main PCB Module
TPPLSLTSM	LCD with Touch Screen Module
TPPLSBPM	Back Plane Module
TPPLSSAM	SMPS Assembly Module(150W,110/220VAC)
TPPLSIBB	Replacement Backup battery pack
TPPLSMAAI2	2 X mA Input Module (1st F)
TPPLSMAAI4	4 X mA Input Module(1st F)
TPPLSMAAI8	8 X mA Input Module(1st F)
TPPLSMAVI2	2 X mV Input Module(1st F)
TPPLSMAVI4	4 X mV Input Module(1st F)
TPPLSMAVI8	8 X mV Input Module (1st F)
TPPLSMAROC	12 X Relay Output Module
TPPLSMAA04	4 X mA Output Module



Honeywell Gas Detection



Honeywell is able to provide gas detection solutions to meet the requirements of all applications and industries. Contact Honeywell in the following ways.

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