



Introducing a complete solution for car park gas detection backed by more than a century of innovation.



Less Money.  
Less Effort.  
Total Peace of Mind.

## A Gas Detection System that Pays for Itself

# Less Money

Electricity is expensive, and running a ventilation system all day uses a lot of electricity. But, as the emission levels in a car park vary over the course of a day, constant ventilation is an unnecessary expense. IGD's SafePark Gas Detection System will automatically engage your ventilation fans at the appropriate level when emission levels are breached and reduce ventilation when safe emission levels are established, potentially saving you thousands on electricity, without compromising on safety.

Vary your ventilation with IGD.

Our 2-Wire Addressable system enables you to interconnect multiple detectors on a single cable highway equipping you with accurate, reliable gas monitoring across the car park. Our Sentinel+™ software also accommodates the addition of various external devices connected directly from the nearest detector, and with SafePark's internal Wi-Fi, cloud-based data acquisition, and SMS alerts you can remotely access your setup to perform maintenance and download data logs. You can even integrate our components into your system using your existing wiring. All of this means we can significantly cut your installation costs.

## Leave it to IGD

# Less Effort

We do all the hard work at our end to ensure that your installation is as straightforward as possible. The SafePark Gas Detection System provides you with round-the-clock monitoring and automation of your setup, only alerting you to an issue when your attention is required. The modular flexibility of all SafePark components means we can provide the perfect gas detection solution for any car park with only three elements. Our intuitive system is easy to address, maintain and service putting you in complete control of your gas detection and ventilation systems.



## Detectably Better Coverage

# Total Peace of Mind

A car park ventilation system must be compliant with the following standards:

- EN 50545-1
- IEC 60079-29-1

But knowing everything about the relevant safety standards isn't your job, it's ours. We hold all appropriate accreditations and with an IGD setup, you can rest assured that your gas detection system is reliable, fully compliant, and backed by over a century of expertise and IGD's 10-year warranty.



# SafePark Products & Order Codes

## SafePark Detector

SafePark Detectors come pre-calibrated to monitor nitrogen dioxide (NO<sub>2</sub>), nitric oxide (NO) carbon monoxide (CO) and flammables (LPG and hydrogen) providing fast, accurate, and reliable gas detection. All our long-life detectors are backed by our 10-year electronics guarantee.

Gas	Range	Order Code
Nitric Oxide	0-100PPM	TOC-CAR-NO
Nitrogen Dioxide	0-30PPM	TOC-CAR-NO2
Carbon Monoxide	0-300PPM	TOC-CAR-CO
Flammables	0-100% LEL	TOC-CAR-FLAM



## SafePark Controller

The SafePark Controller is the best option for HVAC installers, offering complete control of every element of your gas detection setup on our 2-Wire Addressable system and providing you with digital readings through our Wi-Fi interface. The Controller is compact and fits onto a DIN rail to save on space and comes in both a single port and a 6-port version.

Order Code	Highways	Devices
TOC-GATEWAY-C	1	up to 32
TOC-GATEWAY-C+6	6	up to 128



## SafePark Control Panel

The SafePark Control Panel is best suited to updates for existing systems. It's an alternative to the SafePark Controller that boasts all the same features and more. The Control Panel comes in its own custom housing with a 2x8 RGB colour change display, jog wheel, 1-Click setup, and the ability to backup any customised settings using our Wi-Fi interface.

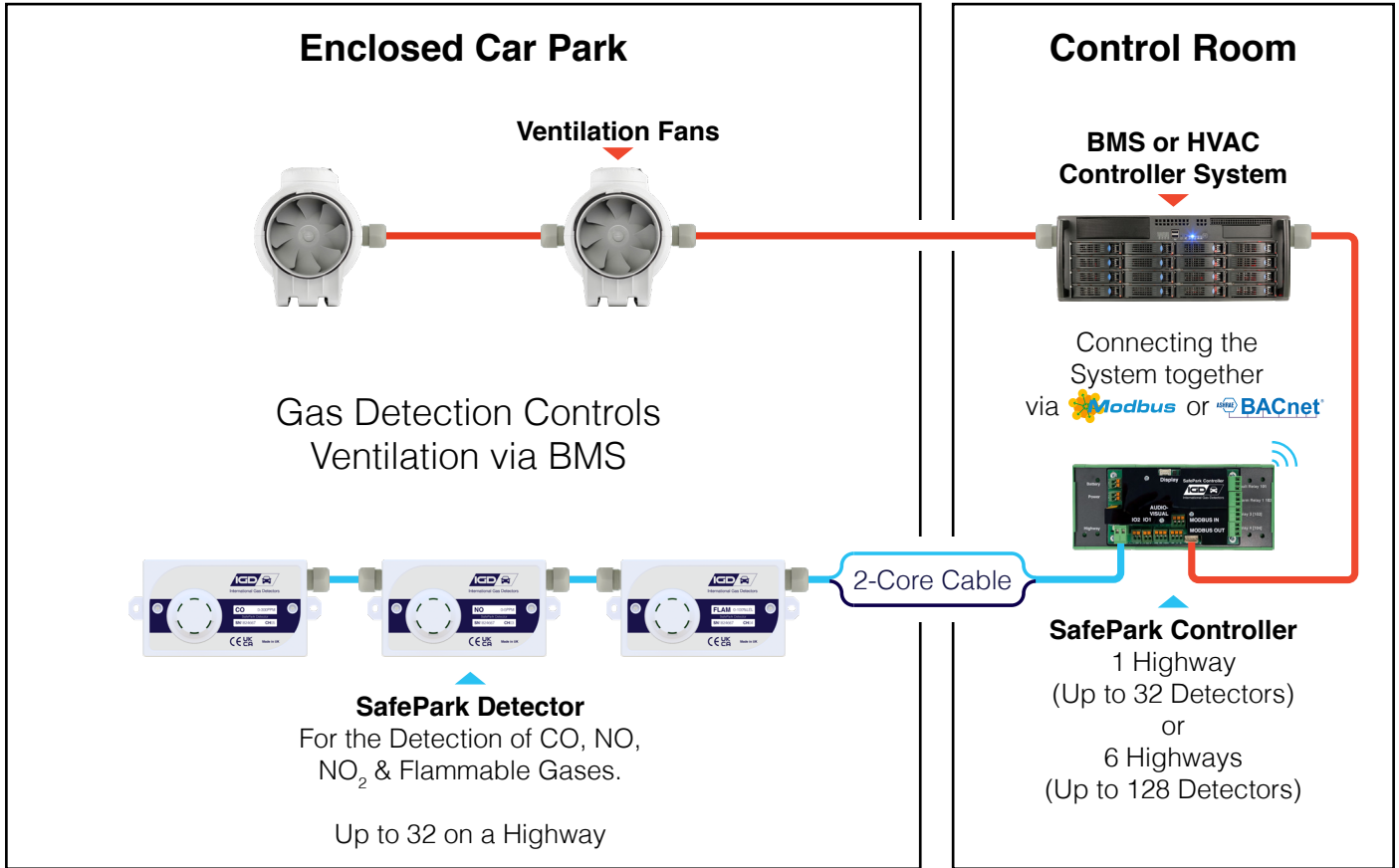
Order Code	Highways	Devices
TOC-650C-150	6	up to 128



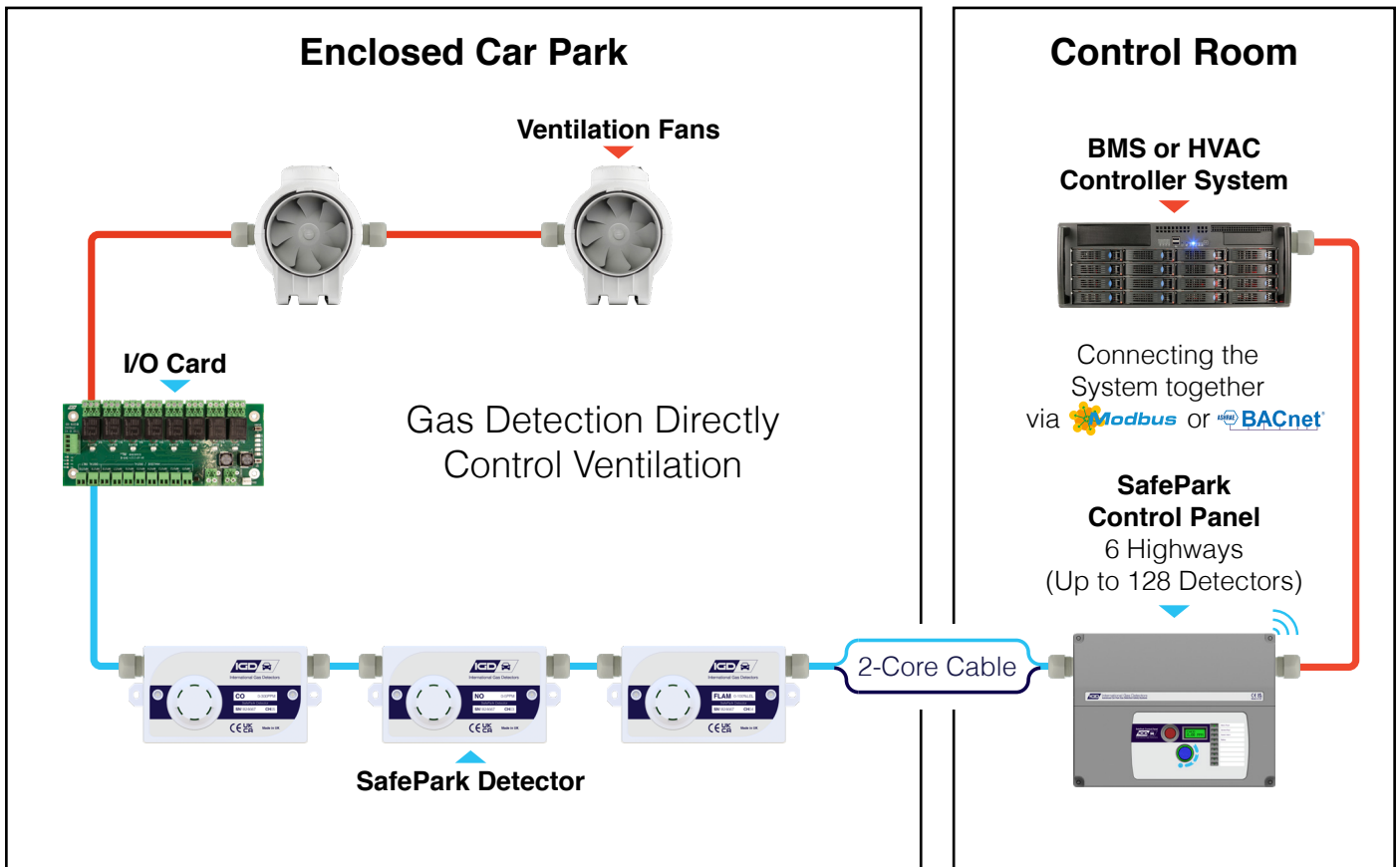


# Example Systems

\*Products and placement not to scale.  
Diagram for illustration purposes only.



Or



# SafePark Controller Specifications

<b>Power</b> 18-28 VDC	<b>Weight</b> 400 g	<b>Dimensions (wxdxh)</b> See Diagram	<b>Temperature Range</b> 0° to +55°C (+32° to +131°F)
<b>Humidity</b> 0% to 95% RH Non-Condensing	<b>Outputs</b> 3 off SPCO Relays 4A Non-Inductive User Configurable 1 off Fault Relay SPCO Relays 4A Non-Inductive 1 off Solid State Beacon Sounder Output RS485 Modbus RTU RS485 BACnet MSTP Wi-Fi Embedded Setup pages	<b>Inputs</b> Up to 32 off Addressable Series Detectors or I/O Modules limited by cable size and PSU	<b>Mounting</b> Din Rail
<b>Communication</b> IGD Sentinel+™ Protocol, 2-Wire Connection L1,L2			

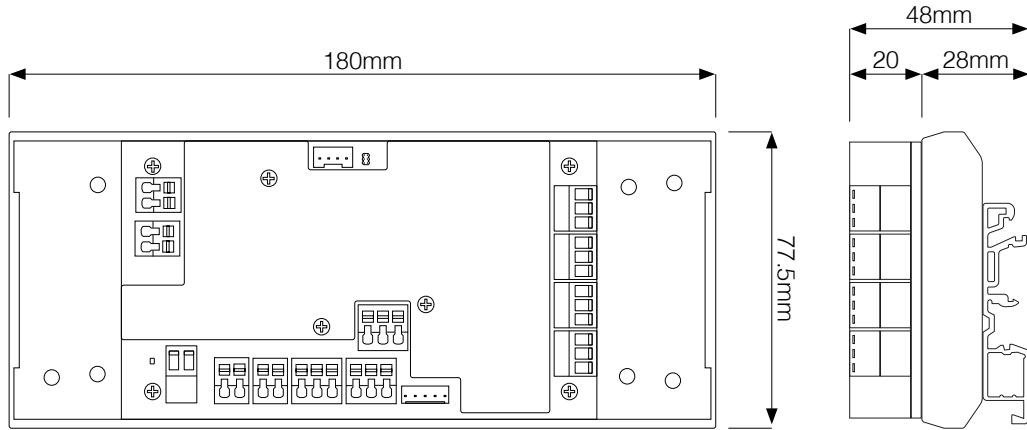
# SafePark Detector Specifications

<b>Power</b> 18 to 28V DC	<b>Weight</b> 300 g	<b>Dimensions (wxdxh)</b> See Diagram	<b>Housing Material</b> ABS
<b>Temperature Range</b> -10° to +55°C (+14° to +131°F)	<b>Humidity</b> 0% to 95% RH Non-Condensing	<b>Ingress Protection</b> IP54	<b>Mounting</b> Wall Mount
<b>I/O</b> 1 off SPCO Relays 4A/230V AC Non-Inductive User Configurable from 650/750 Controllers 2 multifunction ports as: - Digital Input Max 0.2Hz - Digital Input 0-3V Max 0.2Hz - 4-20mA input or - Solid State Output 24V DC Max 300mA shared Across both Ports	<b>Sensor</b> Pellistor and Electrochemical	<b>Communication</b> IGD Sentinel+™ Protocol, 2-Wire Connection L1,L2	<b>Installation Cables</b> Supported Installation Cables 2 Core 1.5mmSQ or 2.5mmSQ See IGD Cable System Calculator Typically SWA, FP200, CY Screened or Similar

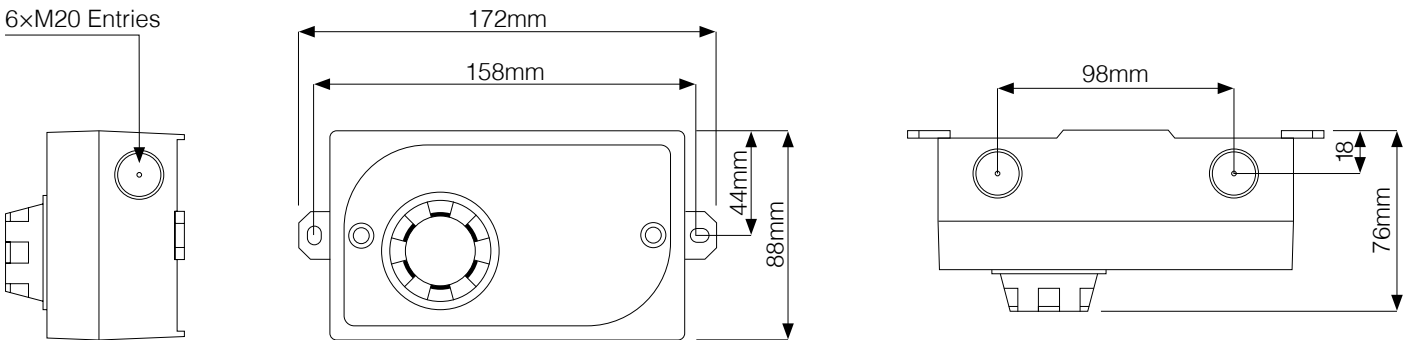
# SafePark Control Panel Specifications

<p><b>Power</b></p> <p>110/230 VAC 50/60Hz 150W</p>	<p><b>Weight</b></p> <p>1.75Kg</p>	<p><b>Dimensions (wxdxh)</b></p> <p>382 × 120.5 × 292mm (15.04 × 4.74 × 11.5")</p>	<p><b>Temperature Range</b></p> <p>-5° to +40°C At +55°C De-Rate PSU Output by 30%</p> <p>(+23° to +104°F At +131°F De-Rate PSU Output by 30%)</p>
<p><b>Ingress Protection</b></p> <p>IP54</p>	<p><b>Housing Material</b></p> <p>ABS</p>	<p><b>Humidity</b></p> <p>0% to 95% RH Non-Condensing</p>	
<p><b>Mounting</b></p> <p>Wall Mount</p>	<p><b>Display</b></p> <p>2 Lines × 8 Digit LCD Display Multi-Colour Backlight (Red-Alarm, Yellow-Fault, Blue-Normal)</p>	<p><b>User</b></p> <p>SafePark-650 IGD Jog Wheel Option Select</p>	<p><b>Inputs</b></p> <p>Up to 128 off Addressable Series Detectors or I/O Modules over 6 Addressable Highways</p>
<p><b>Outputs</b></p> <p>3 off SPCO Relays 4A Non-Inductive User Configurable 1 off Fault Relay SPCO Relays 4A Non-Inductive 1 off Solid State Beacon Sounder Output Additional Digital Inputs/Relay Outputs can be added to highways RS485 Modbus RTU RS485 BACnet MSTP Wi-Fi Embedded Setup pages</p>			<p><b>Other I/O</b></p> <p>Sounder 85dB @ 100mm (Mutable) Dedicated E-Stop/ Slam Switch Input Dedicated Fire System Interlock</p>

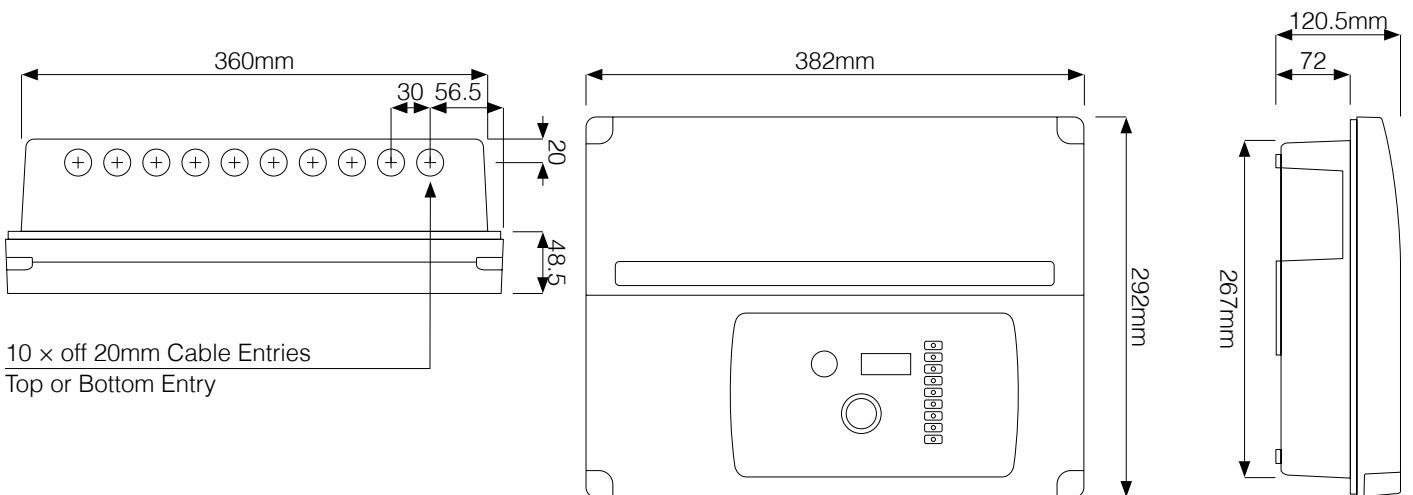
# SafePark Controller Dimensions



# SafePark Detector Dimensions



# SafePark Control Panel Dimensions



# EC Declaration of Conformity

Declares the product listed as:  
**TOC-CAR/TOC-750**

Addressable Safe  
Area Gas Detector

**Issuers name and address:**  
Oliver IGD Limited of  
Triton House  
Crosby St  
Stockport, SK2 6SH  
United Kingdom

Are in conformity with the provisions of the following European Directive(s) when installed, operated, serviced and maintained in accordance with the installation and operating instructions contained in the product documentation.

## United Kingdom

**Electromagnetic Compatibility Regulations 2016**

**Electrical Equipment (Safety) Regulations 2016**

## European Union

**2004/108/EC**

**EMC Directive**

**2014/35/EU**

**Low Voltage Equipment Directive** (note not applicable to 24V DC Powered Versions)

And that the standards and/or technical specifications referenced below have been applied or considered.

**IEC 50194**

**IEC/UL/CSA 61010-1**

Electrical apparatus for the detection of combustible gases  
Safety requirements for electrical equipment for measurement, control, and laboratory use.

General requirements

**IEC 50270**

Electromagnetic compatibility - Electrical Equipment for the Detection and Measurement of Combustible Gases, toxic Gases or Oxygen

**IEC 60529**

Degree of Protection to IP54

**IEC 60068-2-6**

Vibration

**IEC 60335:2012+A11:2014**

Electrical Safety

**EN50545-1**

Electrical apparatus for the detection and measurement of toxic and combustible gases in car parks and tunnels (complies to)

**Technical File Reference**

T750B-TF9

Quality Management

Certificate Number

**FS 646773**

**EMS 696504**

Oliver IGD Limited operate an  
independently assessed ISO 9001:2015  
Quality Management System & ISO 14001  
Environmental Management

BSI Assurance UK LTD,

Chiswick High Road,

London

W4 4AL

UK

**CE**

**UK  
CA**



**Issued by:** Oliver IGD Limited, Stockport, SK2 6SH , United Kingdom

**Signature:**

A handwritten signature in black ink, appearing to read "Andrew J Collier".

Declaration of Conformity in accordance with EN ISO/ IEC 17050-1:2010

**Name:** Andrew J Collier M.I.O.D

**Date:** 1 July 2024

**Declaration Ref:** DEC-6

**Position:** Managing Director



# EC Declaration of Conformity

Declares the product listed as:  
**(SafePark)TOC-GATEWAY**

Addressable Control  
Panel Card

**Issuers name and address:**

Oliver IGD Limited of  
Triton House  
Crosby St  
Stockport, SK2 6SH  
United Kingdom

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**United Kingdom**

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**European Union**

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**EMC Directive**

**2014/35/EU**

**Low Voltage Equipment Directive** (note not applicable to 24V DC Powered Versions)

And that the standards and/or technical specifications referenced below have been applied or considered.

**IEC 60079-29-1:2016 2nd Ed**

Explosive Atmospheres. Gas Detectors. Performance Requirements of Detectors for Flammable Gases.

**IEC 50194**

**IEC/UL/CSA 61010-1**

Electrical apparatus for the detection of combustible gases  
Safety requirements for electrical equipment for measurement, control, and laboratory use.

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General requirements

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Electrical Safety

**EN50545-1**

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London  
W4 4AL  
UK



**Issued by:** Oliver IGD Limited, Stockport, SK2 6SH , United Kingdom

**Signature:**

Declaration of Conformity in accordance with EN ISO/ IEC 17050-1:2010

**Name:** Andrew J Collier M.I.O.D

**Date:** 1 July 2024

**Declaration Ref:** DEC-14

**Position:** Managing Director

# EC Declaration of Conformity

Declares the product listed as:  
**(SafePark)TOC-650**

Addressable Gas  
Detection Control Panel

**Issuers name and address:**

Oliver IGD Limited of  
Triton House  
Crosby St  
Stockport, SK2 6SH  
United Kingdom

Are in conformity with the provisions of the following European Directive(s) when installed, operated, serviced and maintained in accordance with the installation and operating instructions contained in the product documentation.

## United Kingdom

**Electromagnetic Compatibility Regulations 2016**

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## European Union

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**Low Voltage Equipment Directive** (note not applicable to 24V DC Powered Versions)

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Electrical Safety

### IEC/UL/CSA 61010-1

Safety requirements for electrical equipment for measurement, control, and laboratory use

### EN50545-1

Electrical apparatus for the detection and measurement of toxic and combustible gases in car parks and tunnels (complies to)

### Technical File Reference

T650-TF9

Quality Management  
Certificate Number

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**EMS 696504**

Oliver IGD Limited operate an  
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Quality Management System & ISO 14001  
Environmental Management

BSI Assurance UK LTD,  
Chiswick High Road,  
London  
W4 4AL  
UK



**Issued by:** Oliver IGD Limited, Stockport, SK2 6SH , United Kingdom

**Signature:** 

Declaration of Conformity in accordance with EN ISO/ IEC 17050-1:2010

**Name:** Andrew J Collier M.I.O.D

**Date:** 1 July 2024

**Declaration Ref:** DEC-9

**Position:** Managing Director