



# PTV

## Protected Transit Vehicle SPECIFICATION SHEET

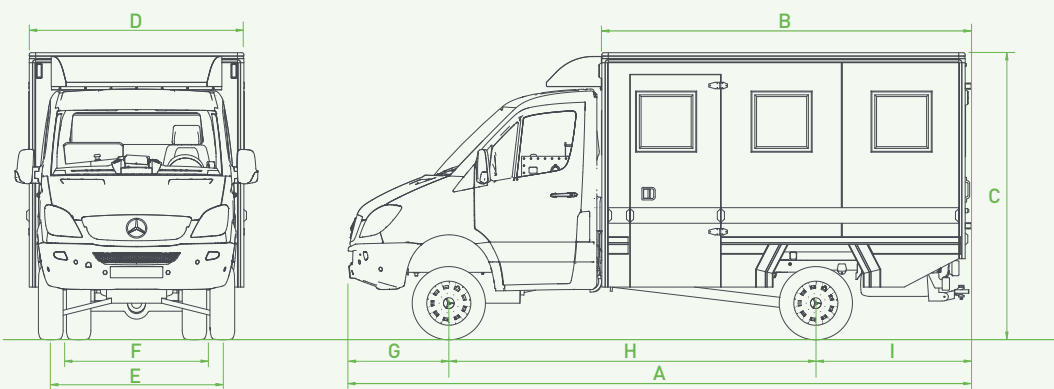


Developed specifically for use in the Oil & Gas sector, the Protected Transit Vehicle (PTV) provides a fully ATEX Zone 2 compliant passenger and cargo transport capability tailored for use in potentially hazardous explosive and toxic environments. The PTV is based upon a 4x4 Mercedes Sprinter that has been adapted for safe use in exploration and extraction operations. The vehicle system is fully ATEX Zone 2 compliant thereby providing the user with the utmost confidence and the employer with the requisite regulatory compliance and on-site safety.

The vehicle occupants are protected from explosive hydrocarbons as well as toxic "sour gas" using an integrated Gas Detection System. Through constant hazardous gas monitoring, filtration and an over-pressured interior, the PTV creates a safe working environment. When the PTV detects a hazardous gas it initiates an evacuation sequence that disables the engine, ventilation system and all non-ATEX rated equipment.

Simultaneously, visual and audible alarms inform both the occupants and surrounding personnel of the threat. The residual over-pressure and sealed interior provide protection from toxic gas ingress to allow the crew time to don their evacuation breathing apparatus. The PTV system can be integrated onto any vehicle type chosen by the customer across a wide range of variants including passenger, cargo and handling.

A	Length	6225 mm
B	Crew Compartment Length	3600 mm
C	Height	2800 mm
D	Width	2200 mm
E	Track Width (Front)	1700 mm
F	Track Width (Rear)	1520 mm
G	Front Overhang	1000 mm
H	Wheelbase	3665 mm
I	Rear Overhang	1560 mm



# PTV Vehicle Specification

<b>Weight (GVW)</b>	5000 kg
<b>Payload</b>	(Personnel) 1000 kg (Cargo) 2000 kg
<b>Kerb weight</b>	(Personnel) 4000 kg (Cargo) 3000 kg
<b>Axle loads</b>	Max. permissible load (Front axle) 2000 kg (Rear axle) 3500 kg
<b>Turning circle</b>	14.2 m
<b>Speed</b>	20 km/h
<b>Fuel capacity</b>	100 Litres
<b>Towing capacity</b>	Max. load (braked/unbraked) 2000 kg/750 kg
<b>Passengers</b>	10 Crew plus driver (including breathing apparatus)
<b>Engine</b>	Mercedes 2143 cc , 4 Cylinder (in-line), 129 hp, 305 Nm Torque
<b>Transmission</b>	6-Speed Manual or Automatic Transmission
<b>Drive</b>	Rear-Wheel Drive with selectable All-Wheel Drive (Torque distribution: Front axle 35%, Rear axle 65%)
<b>Tyres</b>	205/75R 16C
<b>Electrical system</b>	12v DC
<b>Temperature range</b>	Operational -36 °C to +42 °C Cold start (min.) -20 °C
<b>Steering</b>	Speed-sensitive rack-and-pinion power steering
<b>ATEX Protection</b>	II 3G EEx diem IIB T3 - 200 °C

### Suspension and axles

Front axle - Independent suspension, shock absorber strut independent front suspension with transverse-leaf parabolic spring and stabiliser  
Rear axle - Rigid rear axle with parabolic spring, stabiliser and shock absorber

### Brakes

Hydraulic dual-circuit brake with vacuum booster  
4 internally ventilated disc brakes  
ADAPTIVE ESP® (Electronic Stability Program)  
ABS (Anti-lock Braking System), ASR (Acceleration Skid Control)  
BAS (Hydraulic Brake Assist), EBD (Electronic Brake Force Distribution)

### Gas detection

Integrated Honeywell Sensepoint XCD RFD gas sensors  
Programmable trip level settings  
Customisable for specific hazardous gas threats

### Environmental protection

Air filtration system with cartridge filter  
Dynamically maintained over-pressure (100 Pa)  
Pressure-sealed driver's cabin and crew compartment

### Options

Variants - Personnel, Cargo, Tipping Load Bed, Panel Van  
Gas Detection options including - Oxygen, Hydrogen Sulphide, Carbon Monoxide, Hydrogen, Nitrogen Dioxide, Flammable 1 to 8, Methane, Propane and Carbon Dioxide

