A tyre pressure monitoring system that sees more than most
When we designed TyreWatch, our goal was to reduce tyre-related failures through real-time telematics. Keeping you safe on the road, making your life easier and saving you money is our passion and driving force.

– Mark Longden, Director
WELCOME TO OUR WORLD

TyreWatch is the market-leading supplier of tyre pressure monitoring systems for commercial vehicle fleets

Whether you’re operating in the UK or further afield, TyreWatch is designed to give commercial fleet operators complete peace of mind. Our custom tyre pressure monitoring system (TPMS) is an integrated solution that provides a continuous, real-time condition report for each and every tyre within your fleet – meaning you’re always one step ahead when it comes to scheduling maintenance or anticipating repairs.

Running tyres at incorrect pressures can be a serious – yet often underestimated – drain on resources, causing unnecessary fuel wastage, reduced service life and increased carbon emissions. More importantly, the vehicle’s handling, braking and stability are also adversely affected. Incorrectly pressurised tyres remain the singular most common cause of avoidable roadside failure.

TyreWatch works seamlessly with your fleet to ensure safe and efficient delivery of your goods, services and passengers – on time, every time. Regardless of your fleet size, a TyreWatch system will keep you delivering on your promises.

A tyre pressure monitoring system that sees more than most

monitor: pressure, temperature, speed and location
inform: the driver and fleet operator of potential issues
prevent: avoidable roadside failures and downtime
With the condition of our roads continuing to deteriorate, levels of debris increasing, and congestion leading to accidental kerbing, incidents of tyre damage can happen at any time. You need continuous real-time monitoring to reveal building pressure or temperature trends that may point to trouble looming.

– Glenn Sherwood, Director

A tyre pressure monitoring system that sees more than most
MONITORED FLEETS ARE SAFER

Industry research shows that around 80% of commercial fleets are running tyres at incorrect pressures

As a professional fleet operator, you will already have regular tyre maintenance procedures in place. Your fleet workshop or tyre support provider will check pressure levels, wear, tread and wheel condition, as well as any damage that may increase the possibility of failure. Your drivers will perform visual inspections before they start their day too. Whilst checks such as these are seen as an essential part of fleet maintenance, they are in fact a relatively inefficient way of monitoring and fixing damage.

With visual inspections often failing to identify potentially serious problems with the concealed inner wheels, your fleet relies almost entirely upon scheduled maintenance to identify and fix costly and potentially dangerous faults. The reality of operating a sizeable logistics fleet often means that the time between these scheduled repairs is too great to be certain of catching early warning signs of failure before they develop. This is particularly true of trailers – with routine visual inspections placing more emphasis on tractor units, unfortunately problems on trailers tend to go unnoticed.

With a TyreWatch system in place, problems with any part of your HGV or PSV fleet wheels are detected right from the off; meaning that potentially dangerous or costly breakdowns can be picked up even before they become obvious from visual inspections or scheduled maintenance.
INFORMATION IS EVERYTHING

When TyreWatch detects an issue, it immediately informs both the driver and the fleet management office so action can be taken

Every TyreWatch system is configured to the individual specifications of your vehicle: with sensors mounted securely within the wheels, intelligent technology continually collects information from both tractor and trailer units.

TyreWatch efficiently analyses and reports on:

- **Tyre pressure:**
  - Rapid pressure leakage – more than 5 psi deflation in 15 seconds
  - 20% under baseline pressure
  - 30% above baseline pressure
  - Unequal pressure across an axle
- **Tyre temperature:**
  - Alerts when tyre temperature reaches 80 °C
- **Vehicle speed:**
  - Crucial, as excessive speed is a major cause of rapid tyre attrition

When TyreWatch detects an issue, it immediately informs both the driver and the fleet management office in real-time so that action can be taken.

INFORM

Typically, non-urgent issues such as slow pressure loss from a leaky valve, or a modest temperature increase from a mechanical defect on an axle for example, can be fixed once the driver returns to base. The nature of the fault is minor, but with this knowledge the driver can proceed with caution and avoid potential escalation or exacerbation of the fault.

PREVENT

Should TyreWatch detect rapid pressure leakage or high temperatures – the main causes of tyre failure – it generates an urgent stop alert. The driver can then pull over in full control of the vehicle, preventing imminent tyre failure. With vehicle tracking as standard, you can direct your tyre support provider with pin-point accuracy.

TyreWatch also gives you access to both live and historical data for your vehicles. With careful analysis, this can help to make informed decisions on tyre purchasing, routing policies and tyre specifications.

TyreWatch informs – keeping personnel safe, and your fleet streamlined.
In cab Web interface Email

- Real-time tyre pressure monitoring
- Real-time tyre temperature monitoring
- Tyre pressure alert
- Unequal pressure across an axle alert
- Tyre temperature alert
- Rapid pressure loss
- Vehicle positioning and tracking
- Speed alert

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<th>In cab</th>
<th>Web interface</th>
<th>Email</th>
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<td>Real-time tyre pressure monitoring</td>
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<tr>
<td>Real-time tyre temperature monitoring</td>
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<td>Tyre pressure alert</td>
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<td>Unequal pressure across an axle alert</td>
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<td>Tyre temperature alert</td>
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HAPPIER CUSTOMERS, DELIVERED SAFELY

Your customers are key; don’t keep them waiting. Tyres needn’t be the reason for roadside failure

We understand that every fleet operator’s goal is to deliver their goods, services and passengers on time, every time. The truth is, your tyres are the most likely cause of avoidable roadside failure, and are therefore the most critical component in ensuring you keep your customers happy.

One of our largest partners is a global parcel and freight company. With a time-critical UK operation of three to five thousand customer consignments being moved and sorted for distribution every day, it’s paramount that their fleet is maintained to the very highest standard.

Each evening, customer consignments are trunked from their regional depots to the central sorting hub, before being sorted into their delivery depots and trunked back to the regions in time for deliveries to start the next morning.

With speed of delivery being one of their unique selling points, delivering to customers on time is critical not only to achieving customer satisfaction, but also to upholding their hard-won reputation. Even small delays at the start of the trunking operation can lead to significant delays in delivery time: when a trunker fails to arrive at the hub in time, every consignment from that region misses its ongoing distribution for the next day.

Historically, they were experiencing 29 roadside failures every year with their trunking fleet. During the first six months after installing TyreWatch, this number was reduced to just 2, caused by unavoidable debris on the road. We delivered a failure reduction of over 85%, at a price of just 70 pence per day. The TyreWatch system also detected 5 non-urgent issues, which were quickly remedied before they became serious.

TyreWatch is either installed, or under evaluation, in a wide range of globally recognised fleets. Our clients include major parcel distribution companies, logistics companies, coach operators and even Formula 1 racing teams. With so many organisations already enjoying the huge benefits of TyreWatch, we can help you too.
A SIGNIFICANT RETURN ON INVESTMENT

From just 70 pence per day, we can deliver an 85% reduction in roadside failures – and that’s just the beginning

We understand that your budget has limits, but TyreWatch is more than just another cost – it is an investment in the ongoing streamlining of your fleet. With operating costs being reduced year on year, our customers are investing not only in the safety of their personnel, but also in the financial benefits.

In a recent evaluation, we explained to a potential customer how the TyreWatch system could benefit their operations. Their 14 wheel car transporters cover about 54,000 miles per annum, typically achieving 6.8mpg due to their un-aerodynamic shape.

We calculated that with a TyreWatch system deployed, they could reduce fuel burn by 2% pa on each vehicle. On top of this, they could save around £300 in tyre damage, and more than £600 on downtime per vehicle compared to previous years.

<table>
<thead>
<tr>
<th>Amount of under-inflation</th>
<th>Wasted fuel</th>
<th>Increased tyre wear</th>
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<tr>
<td>10%</td>
<td>+1%</td>
<td>+10%</td>
</tr>
<tr>
<td>20%</td>
<td>+2%</td>
<td>+30%</td>
</tr>
<tr>
<td>30%</td>
<td>+4%</td>
<td>+45%</td>
</tr>
</tbody>
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**Decreased tyre wear**
Just 10% under-inflation increases tyre wear by 10%

**Safety**
Front tyre failure can be catastrophic. Minimising tyre pressure and temperature issues makes your fleet safer for everyone

**Increased uptime**
Vehicles broken down at the side of the road are not delivering on your customers’ expectations

**Fuel savings**
10% under-inflation will increase fuel burn by 1%

**Carbon emissions**
Decreased tyre wear, fuel savings and fewer service call-outs naturally deliver lower carbon emissions

**More efficient tyre servicing**
Checking individual tyres is time-consuming. With a TyreWatch system you’ll already know which tyres require attention, so you can service them by exception

**Your fleet tyre budget**
Prevention of tyre failure not only saves you the cost of a new tyre, but the associated call-out and installation charges too

**Annual spend on fuel, tyre wear and downtime**

<table>
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<tr>
<th>Years</th>
<th>Previous spend per vehicle</th>
<th>Spend with TyreWatch including hardware cost</th>
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<tbody>
<tr>
<td>1</td>
<td>£40,000</td>
<td>£35,000</td>
</tr>
<tr>
<td>2</td>
<td>£30,000</td>
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<td>3</td>
<td>£20,000</td>
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<td>4</td>
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<td>5</td>
<td>£0</td>
<td>£0</td>
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START PREVENTING ISSUES TODAY

TyreWatch can help you prevent avoidable, costly tyre failures in your vehicle fleet – so start reaping the benefits today

With TyreWatch you can:

• Monitor fleet tyre pressure, temperature, vehicle speed and location
• Rely on a seamless reporting system that informs the driver and fleet operator of potential issues, and provides historical data for analysis
• Prevent avoidable roadside failures and vehicle downtime
• Enjoy nationwide installation at your premises, as well as all the technical support you’ll ever need
• Experience a class-leading 5 year guarantee

Let us help you reduce tyre-related failures and continue to deliver the service your customers deserve. To find out more about how TyreWatch can help your organisation, or to arrange a trial programme, get in touch with us today:

t: +44 (0)330 332 8247
e: sales@tyrewatch.com

According to a recent EC report, tyre under-inflation is responsible for burning over 20 million litres of fuel unnecessarily, dumping over 2 million tonnes of CO₂ into the atmosphere, and for 200 million tyres being prematurely wasted worldwide.