



# SAF TIRE PILOT I.Q. and Haldex TPMS

Maximum performance and safety: tire pressure monitoring for commercial vehicles



# Maximum performance and safety:

The correct tire pressure for your commercial vehicles

Less fuel, more environmental protection.  
Less downtime, more road safety.

## Hands-on savings.

Optimum tire pressure saves fuel and reduces the risk of total tire failure with long idle times.

## Driving further.

As the tire pressure decreases, wear increases. This reduces the service life of the tires. Wear results in higher costs.

## Driving more safely.

Permanent monitoring of the tire pressure and automatic top-up in the event of leaks prevent flat tires. Even in the event of a small puncture, the trailer can be safely driven to the nearest repair workshop.

## Driving more sustainably.

The correct tire pressure effectively reduces fuel consumption. Less tire wear means less microplastics on the roads.



# SAFE and EFFICIENT

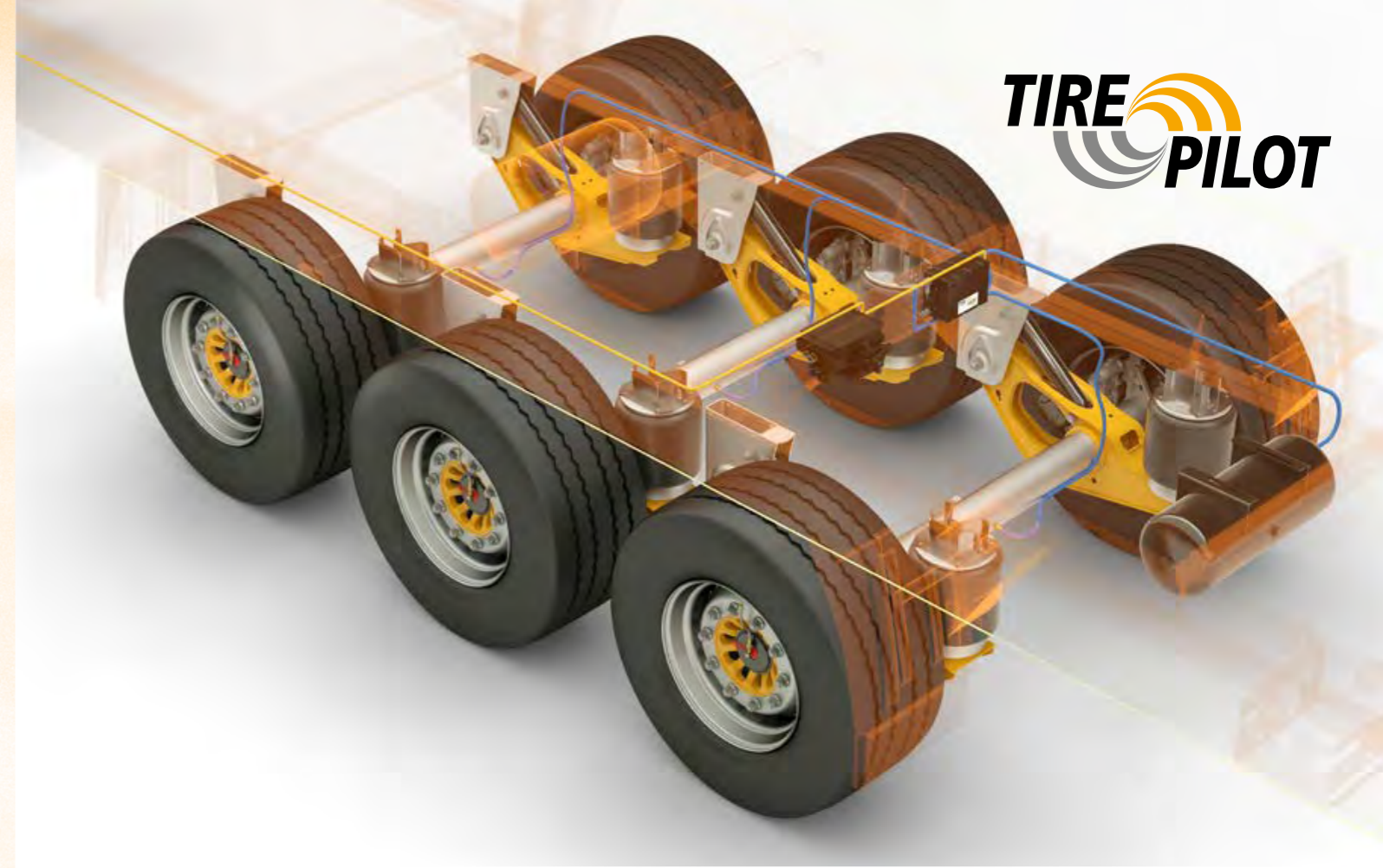
If you wish to protect your tires over the long term and save fuel in the process, you need a system that consistently maintains the preset tire pressure. As soon as the tire pressure drops, the rolling resistance increases, causing higher wear on the tires – and also pushing up fuel consumption and environmentally harmful CO<sub>2</sub> emissions.

This is why SAF-HOLLAND has developed the SAF TIRE PILOT I.Q. – an intelligent assistant for an efficient fleet of vehicles.

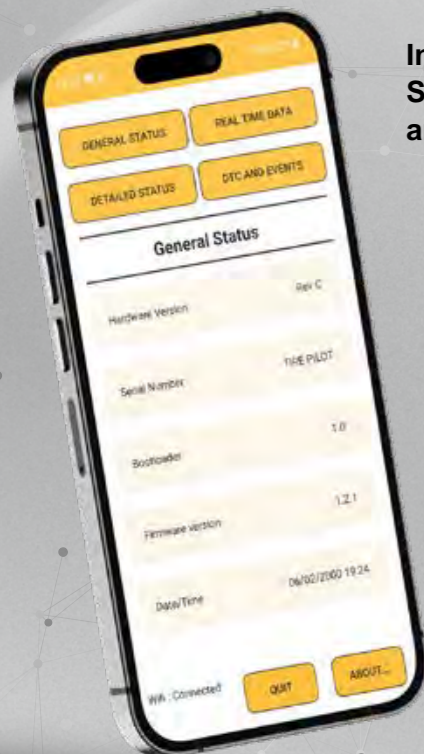
Meets the requirements  
of EU Directive  
2019/2144 & ECE R 141

The benefits of the **SAF TIRE PILOT I.Q.** at a glance

- Improved TCO and better process reliability of the fleet
- The system independently controls the pressure before a problem can occur
- Optimises tire life
- Reduces the probability of a breakdown due to tire failure
- Contributes to fuel savings
- Simplifies tire management for spare wheels as no special or manufacturer-specific sensors are required



# DIGITAL and CONNECTED



In addition to the warning message on the dashboard in the cab, SAF TIRE PILOT I.Q. offers detailed evaluations of the system via an app and WiFi.

- Easily accessible with wireless data transfer
- Detailed, easy to understand instructions for the system state
- Information on the set pressure parameters and functions in real time
- Reliable comparison between preset system pressure and tire size

Download the app for free here:



# EFFECTIVE and ECONOMICAL

Calculate the savings potential for your fleet.  
The **SAF TIRE PILOT I.Q. Payback calculator:**

Clearly identify potential tire and fuel savings per trailer – only very little information required to obtain sound data.

The payback calculator for SAF TIRE PILOT I.Q. can be found at:  
<http://tirepilot.safholland.com>



or simply scan the QR code.

\* Sample calculation; for more information visit <http://tirepilot.safholland.com>





## How it works:

The **system pressure** is set to **9 bar** at the factory.

If the tire pressure drops due to a leak or slow loss of pressure, the **control box A** starts compensating for the lack of pressure with compressed air lines through the axle tube, **stator** and **rotor** (rotary feedthrough) **B**, **hub cap C** and **connecting line D**.

The **top-up process** of the SAF TIRE PILOT I.Q. **already starts at 0.2 bar pressure deviation** in the tire.

At the same time, a warning is sent to the tractor unit via CAN and EBS and is displayed on the dashboard.

In the event of excessive pressure loss, an additional warning is stored in the system.



## Contents of the BASIC KIT\*\*

Find the right solution for your EBS here:

Kit number	Description	Quantity	
03 001 0271 01	Trailer Basic Kit – HALDEX		
	Control module with pressure booster and ECU	1	
	Cable set for Haldex EB+ 4.0	1	
03 001 0301 01	Trailer Basic Kit – ZF-WABCO		
	Control module with pressure booster and ECU	1	
	Cable set for ZF-WABCO Trailer EBS E6	1	
03 001 0302 01	Trailer Basic Kit – KNORR		
	Control module with pressure booster and ECU	1	
	Cable set for Knorr TEBS G2.2	1	
	Configuration tools		
03 424 0343 00	Service cable kit		
04 427 0407 00	USB CAN interface		

\*\* Depending on the vehicle equipment, additional CAN splitters may be required. Please follow the installation instructions.

## Find the right solution for your axles here:

Kit number	Description	Quantity	
03 001 0300 00	Axle kit for axle type B/BI (ET120)		
	Stator*	2	
	Single tire* rotor	2	
	SAF hub cap for SAF TIRE PILOT I.Q.*	2	
	Connecting fitting, axle tube	1	
	Connecting hose 90°	2	
03 001 0308 00	Axle kit for axle type B/BI (ET120) <b>SAF INTRA CD version</b>		
03 001 0259 00	Axle kit for axle type S / SI (ET0)		
	Stator*	2	
	Single tire rotor	2	
	SAF hub cap for SAF TIRE PILOT I.Q.*	2	
	Connecting fitting, axle tube	1	
	Connecting hose straight	2	
03 001 0310 00	Axle kit for axle type S (ET0) <b>SAF INTRA CD version</b>		
03 001 0261 00	Axle kit for axle type Z / ZI		
	Stator*	2	
	Twin tire rotor	2	
	SAF hub cap for SAF TIRE PILOT I.Q.*	2	
	Connecting fitting, axle tube	1	
	Connecting hose 177°	2	
	Connecting hose straight	2	
03 001 0306 00	Axle kit for axle type BLL/BILL (ET120)		
	Stator*	2	
	Single tire* rotor	2	
	SAF hub cap for SAF TIRE PILOT I.Q.*	2	
	Connecting fitting, axle tube 90°*	2	
	Connecting hose 90°	2	
03 001 0305 00	Axle kit for axle type BL/BIL (ET120)		
	Stator*	2	
	Single tire* rotor	2	
	SAF hub cap for SAF TIRE PILOT I.Q.*	2	
	Connecting fitting, axle tube 90°*	2	
	Connecting hose 90°	2	
03 001 0309 00	Axle kit for axle type BL/BIL (ET120) <b>SAF INTRA CD version</b>		
03 001 0267 00	Axle kit for axle type SL / SIL (ET0)		
	Stator	2	
	Single tire rotor	2	
	SAF hub cap for SAF TIRE PILOT I.Q.	2	
	Connecting fitting, axle tube 90°	2	
	Connecting hose straight	2	
03 001 0311 00	Axle kit for axle type SL (ET0) <b>SAF INTRA CD version</b>		
03 001 0269 00	Axle kit for axle type ZL / ZIL		
	Stator*	2	
	Twin tire rotor	2	
	SAF hub cap for SAF TIRE PILOT I.Q.*	2	
	Connecting fitting, axle tube 90°*	2	
	Connecting hose 177°	2	
	Connecting hose straight	2	

\* Installed on the axle at the factory



# TPMS 2.0

## TIRE PRESSURE MONITORING SYSTEM



The Haldex TPMS 2.0 permanently measures the pressure and temperature of each tire. The temperature in a tire with insufficient pressure is higher than in a tire with the correct tire pressure. This results in higher wear and an increased risk of tire damage.

The Haldex TPMS 2.0 complies with ECE R 141 and is compatible with Haldex EB+4.0 and Haldex ABS 4.0.

- Continuously measures tire pressure and temperature
- Identifies tire damage
- Displays the battery capacity
- Because the sensor can be flexibly installed in the tire, it can be used on all types of rims and tires

Part number	Description	Quantity	
Semi-trailers / central axle trailers **			
TPMS 2.0 RCU/cable			
815 058 001	TPMS 2.0 receiver / control unit (RCU)	1	
844 534 012	TPMS 2.0 cable, with connector, 1.2 m	1	
844 536 012	TPMS 2.0 cable, without connector, 1.2 m (alternative)	1	

Turntable trailers and special applications **			
TPMS 2.0 RCU/cable			
815 058 001	TPMS 2.0 receiver / control unit (RCU)	2	
844 534 012	TPMS 2.0 cable, with connector, 1.2 m	1	
844 537 060	TPMS 2.0 cable for second RCU, 6 m	1	
844 537 100	TPMS 2.0 cable for second RCU, 10 m (alternative)	1	

\*\* Depending on the vehicle equipment, additional CAN splitters may be required. Please follow the installation instructions.

Part number	Description	Quantity	
Wheel unit sensor kits			
910 815 024	TPMS 2.0 wheel sensor kit with steel cable and clamping assembly		
042 7272 19	Wheel unit sensor	1	
003 9517 09	Steel cable and clamping assembly for rim sizes 17.5" to 24.5"	1	
006 700 021_M	Label TPMS 2.0	1	
950 800 941	TPMS 2.0 wheel sensor kit with belt fastening		
042 7272 19	Wheel unit sensor	1	
H144896	Fastening belt for rim sizes 17.5" to 24.5"	1	
006 700 021_M	Sticker TPMS 2.0	1	
H144897	Adapter for rim sizes 17.5"		

Configuration/diagnostics tools			
Haldex TPMS tool			
815 065 001	Diagnostics device		
Smart Box			
815 063 001	TPMS 2.0 Smart Box for app		

### The perfect solution for your vehicles.

Tire pressure monitoring systems from SAF and Haldex stand out on account of their uncompromising quality, high level of functional reliability and economic efficiency. The correct tire pressure for your commercial vehicles ensures maximum performance and road safety.

#### Any questions?

We are happy to help and are looking forward to your message.

Your SAF-HOLLAND Sales Team

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The SAF-HOLLAND Group is one of the leading international manufacturers of suspension-related assemblies and components for trailers, trucks and buses. Our innovative products increase the efficiency, safety and environmental friendliness of commercial vehicles, contribute to the success of our customers. With around 6,000 employees worldwide, we are at the forefront of shaping the future of the transportation industry.

