

The Webasto Safety Box monitors air filters in agricultural and construction machinery

The Safety Box ensures that machine drivers are supplied with clean air in the cab and receive a warning if the filter system is not functioning properly.

Gilching, April 4, 2023 – With the Safety Box, top 100 automotive supplier Webasto offers a device for monitoring the air purity in the driver's cabs of agricultural and construction machinery. The box continuously monitors how the on-board air filter systems function. If the air is not being filtered sufficiently, the Safety Box alerts the cab crew via two warning lamps on the dash. This allows Webasto to meet the requirements of DIN standard EN 15695, which defines how air in driver's cabs must be tested and filtered, but does not yet address the functional safety of air filters.

Small box with a big effect

The Webasto Safety Box monitors category 4 air filters for proper function and measures the overpressure and air flow in driver's cabs. An alarm is triggered if it detects deviations from the specified values. The hardware solution monitors all the common sensors present in an air filtration system and operates in accordance with agricultural performance level d (ISO 25119). Additional software is not required for operation. The Safety Box can be combined with up to four different air pressure and air flow sensors. Its robust housing meets the IP67 standard, which means it is protected against the ingress of dust and water, and the unit is capable of withstanding the most adverse environmental conditions. The compact unit can easily be integrated into vehicles that are operated in environments that are potentially hazardous to health.

For example, the Safety Box is designed for agricultural machinery used for spraying pesticides or that is exposed to high airborne concentrations of ammonia. But construction equipment used at landfills, where high airborne concentrations of carbon monoxide and other hazardous substances can occur, are also potential applications.

"While specific key figures for air purity in driver's cabs have already been defined for the agricultural sector, we anticipate that similar legislation will also be introduced for other fields, such as the construction industry. With the Safety Box, we offer manufacturers of vehicles and vehicle cabs, which are sometimes used in polluted environments, a simple solution for ensuring the safety of vehicle operators as they perform their everyday work," comments Jörg Hornung, Vice President Business Line Thermo Management at Webasto.

About Webasto:

The Webasto Group is a global innovative systems partner to the mobility sector and is among the top 100 suppliers to the automotive industry worldwide. The company's product portfolio comprises in-house developed roof systems, heating and cooling systems for various types of vehicle, batteries and charging solutions for hybrid and electric vehicles, as well as complementary services relating to thermo management and electromobility. Webasto's customers include manufacturers of passenger cars,

commercial vehicles and boats as well as dealers and end customers. In 2021, the company generated sales of 3.7 billion euros and employed some 15,700 people at more than 50 locations. The headquarters of the company founded in 1901 is located in Stockdorf near Munich, Germany. For more information, go to www.webasto-group.com

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