



Stoneridge Electronics™ is part of Stoneridge Inc. (NYSE: SRI) and a leading provider of Tachographs and Fleet Solutions in the European Aftermarket sector. Five decades of design and manufacturing, coupled with our insight and experience allows us to ensure customers receive exactly what they want: highly reliable and robust products, backed up by a professional after-sales service.



SE5000 SMART 2

The Second Generation of Smart Tachographs

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The SE5000 Smart 2 is the second-generation smart tachograph from Stoneridge designed to meet the EU Mobility Package I standards. The Mobility Package is a collection of European laws and regulations for the transport sector and contains new rules to improve social conditions for drivers, increase road safety and provide equal access to European markets. Following the Annex Smart 2 (EU 2016/799), adopted by Regulation 2021/1228, a technically improved tachograph is required in the European Union to better monitor and enforce these standards. This led to the introduction of the SE5000 Smart 2 Tachograph from Stoneridge Electronics.

Key Features and Benefits



USER-FRIENDLY FOR DRIVERS

Stoneridge is known for its driver friendliness and the easiest manual entry procedure in the market. To ensure the same smooth driver experience for the SE5000 Smart 2, Stoneridge created a seamless transition through the same menu structure. Rest time calculations have been updated for ferry crossings and crew handovers, the 12 day rule for international coach trips has been implemented, automated departure/destination logbook records when the card is kept inserted overnight and a Driver Timer Display is included for situations outside of the regular DDS calculations.

FLEET FRIENDLINESS

The SE5000 Smart 2 tachograph is designed to be user-friendly for fleets with the company card locking details on printout and on the display. Depending on the telematics, the SE5000 Smart 2 features on-demand remote card download high-speed data transfer. Furthermore, the tachograph software can now be updated to make it easier to follow changes in legislation and add custom features. In addition, there is no need to replace the backup battery.

To download data from SE5000 Smart 2, fleets need to update or purchase a new download tool. A full range of tools is available from Stoneridge and the web-based tachograph analysis program OPTAC3 is updated to be Smart 2 compatible.



DSRC

To communicate remotely with roadside inspection officers without stopping the vehicle, the SE5000 Smart 2 uses Dedicated Short-Range Communication (DSRC). Allowing compliant drivers to continue their journey uninterrupted, saving time and resources.



GEOFIX

With the SE5000 Smart 2 tachograph it is possible to automatically register the country border crossing without any driver actions required. To certify positions, including AETR countries, the tachograph uses position authentication via Galileo OSNMA. To speed up roadside cabotage checks, the tachograph can manually register the position during loading/unloading. The SE5000 Smart 2 also has a shortcut button for quick input of load/unload, available from the OSNMA software version.



BLUETOOTH / ITS

Drivers can easily read or download the data and operate the SE5000 Smart 2 tachograph via external devices, such as a smartphone, through integrated Bluetooth.



SMART 2 REMOTE DOWNLOAD

Telematics hardware and software must adapt to new file information. The SE5000 Smart 2 is compatible with telematics providers, and Stoneridge offers DigiDL to ensure fleet managers meet the requirements.



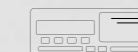
NEW SMART 2 CARDS

New Smart 2 cards will be issued in July 2023 to coincide with the Smart 2 tachograph launch. However, all existing cards will operate in the new Smart 2 tachograph so there is no immediate need for change. The new Smart 2 driver cards offer improved memory storage such that up to 56 days' worth of data can be stored, previously it was 28 days. It is only those new Smart 2 driver cards which have the capability to store the new data generated by the Smart 2 tachograph, for example new GNSS positioning information.

MOBILITY PACKAGE TIMELINE

The introduction of the second generation smart tachograph is intended to increase road safety, improve monitoring of compliance with binding social standards and equalise the rules in EU Member States. The second generation of smart tachographs will be implemented gradually:

- **From August 21st, 2023**, in all newly registered vehicles (national and international)
- **Before the end of 2024**, mandatory retrofit for all Analogue & 1B tachographs for international transport vehicles
- **Before August 19th, 2025**, mandatory retrofit for all first generation Smart 1 tachographs for international transport vehicles
- **From July 1st, 2026**, in all goods vehicles above 2.5 tons, for international transport only



NEW PICTOGRAMS

The SE5000 Smart 2 features user-friendly pictograms for easy use of the tachograph.

- Load operation
- ⏪ Unload operation
- ⏸ Simultaneous load/unload operation
- 👤 Load type: passengers
- 📦 Load type: goods
- ❓ Load type: undefined load type
- 🇪🇺 Position where the vehicle has crossed the border between two countries
- 📦 Position where a load operation has occurred
- ⏪📦 Position where an unload operation has occurred
- ⏸📦 Position simultaneous load and unload operation
- 🔒 Security/authenticated data/seals
- 📍 Digital map/border crossing