



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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# Stoneridge SE5000 Smart 2

## The Second Generation of Smart Tachographs

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.

### SEAMLESS TRANSITION

Stoneridge offers the best solution in the market for retrofitting analogue and digital tachographs. We provide a seamless transition from Smart 1 to Smart 2 without any additional tools needed. Our Optimo<sup>2</sup> Workshop Tool, DSRC Tester, and DSRC modules are all updatable, ensuring a quick calibration process. SE5000 Smart 2 is available in both ADR and non-ADR versions, streamlining stock management.

### PREPARATIONS

Workshops should prepare for mandatory retrofit of Analogue & 1B tachographs for international transport vehicles in 2024, and by August 2025 for all Smart 1 tachographs for international transport. Stoneridge Optimo<sup>2</sup> User Generated Configuration feature will help workshops collect, exchange and reuse required configurations to prepare for the retrofit.

To help tachograph technicians prepare for these upcoming changes, Stoneridge developed specialized training courses for importers and its distribution network.



### TACHOGRAPH FIELD-FLASH

- Via Optimo<sup>2</sup> CAN or Bluetooth interface
- Verify and update GNSS maps
- Update software for new features, legislative changes and improvements
- Required circa 2024 for the final OSNMA handling, post transitional tachographs
- Required at every inspection for Cybersecurity update



### BLUETOOTH / ITS

- Alternate Tachograph interface to Optimo<sup>2</sup> for field flash and programming



### GNSS

- Determine country of calibration
- Check digital map version and update if necessary
- Internal clock deviation of under 5 minutes
- OSNMA position authentication, after transitional period
- Backward compatible with current ROGER repeaters



### NEW PLAQUE ENTRIES

- New parameter by-default load type to be set on installation



### INTERNAL 3RD SOURCE OF MOTION

- No new test. Simply verify the absence of errors 0A and 3A for the additional internal motion sensor



### DSRC

- DSRC Handheld Tester requires a firmware update
- Optimo<sup>2</sup> software version 7.0 displays one of the additional RTM messages
- Optimo<sup>2</sup> will be used to firmware upgrade the current DSRC Module via CAN



### SMART 2 WORKSHOPS CARDS

- New Cabotage related information only stored on Smart 2 workshop card
- Smart 2 tachographs remain compatible with Smart 1 cards
- Smart 1 workshop cards will not save the by-default Load Type registered in the tachograph, this information must be manually added to the certification report

## 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
- 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



Scan for more information!



### NEW PICTOGRAMS

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

By-default load type determined by workshops

- 🚚 Load type: passengers
- 📦 Load type: goods
- ❓ Load type: undefined load type
- 🔒 Authenticated position when associated to GNSS Latitude / Longitude
- 🗺️ Digital map/border crossing