

INTELLIC

EFAS

Next Generation Digital Tachograph



Current legal requirements

The EFAS Digital Tachograph from Intellic fully complies with EU Regulation 1266/2009 including all modifications of **October 2011** (e.g. new minute regulation) and **October 2012** (e.g. updated motion sensors and new independent motion source "IMS").

The new minute regulation allows EFAS to record the longest activity carried out each and every minute. EFAS thus enables valuable extra driving time per day.

EFAS supports all approved motion sensors (ISO 16844, EU 1266/2009). It also handles signals from the independent motion source (IMS) - mandatory for all new vehicles from October 1st 2012.

Relax in confidence with EFAS and welcome the future of mobility.

Highlights of EFAS

- **Full compliance with EU Regulation 1266/2009**
Includes new minute rule, support of new motion-sensors and independent second source of motion (IMS).
- **Easy to service**
 - › Automatic Setup Assistant for CAN bus parameterization
 - › Single device type for all vehicle power-supplies: 12V and 24V
 - › Easy replacement of battery and printer module without calibration
 - › Special Service Tool is available to adjust the tachograph to the requirements of the truck
 - › No calibration at replacement of battery or printer module
 - › Smart PIN input
- **High performance**
 - › Short data download time
 - › Fast card reading/writing and card release
 - › Easy operation and additional comfort functions
 - Convenient input of manual entries
 - Automatic reminder of break time
 - Two independently adjustable speed warnings
 - Adjustable activity switch at ignition change
 - 27 languages installed, additional languages available
 - Easy change of language
 - Default language by pressing only one button
- **Connectivity and compatibility**
 - › Full compatibility with leading accessory tools and workshop equipment
 - › Standard tachograph service interface
 - › Easy parameterization for integration into numerous vehicle types

The newest EFAS tachograph combines exceptional European Digital Tachograph experience and proven compatibility in combination with Russia-specific functionality and usability.

EFAS features outstanding innovative expansion abilities, adjustable installation options and various connections for future vehicle data integration.

Save money and time with EFAS.

Your advantages at a glance

- Extended driving time due to new minute rule
- Highly flexible and adjustable device for various vehicle types
- Saves time and effort by intuitive operations and handling, high performance and additional automated functionality
- Standardized remote download of tachograph data
- Efficient service and maintenance support at installation, retrofit and calibration by Automatic Setup Assistant, supportive design and EFAS Service Tool

INTELLIC group of companies

INTELLIC GmbH is an innovative high-tech company based in Austria providing state of the science products for the sector of Intelligent Transportation Systems (ITS).

INTELLIC Germany GmbH is a subsidiary of INTELLIC GmbH developing sophisticated digital tachograph solutions for commercial vehicles.

Next Generation Digital Tachograph

Technical summary - Next Generation Digital Tachograph

Vehicle Integration

- Standard CAN bus communication according to ISO 16844 (Road vehicles - tachograph systems)
- CAN ISO 15765 (Diagnostic communication over Controller Area Network)
- K-Line / RS 232 with diagnostic functions according to ISO 14229 (UDS - Unified diagnostic services) and ISO 14230 (Diagnostic communication over K-Line)
- Automatic CAN bus adaptation at installation
- Adjustable CAN speed (250, 500 kbps)
- Switchable CAN termination integrated (120 Ohm)

System features

- 2 x 16 character Dot-Matrix-Display
- 4 display colors available at request
- 2 automatic card readers
- Standard radio slot size
- Maximum protection against manipulation
- Maximum system reliability
- Conforms with EU certification standards
- High-precision real time clock
- Parameters can be set via different interfaces
- Exchange of printer module w/o new calibration

Language features

- Automatic detection of the cardholder's national language
- 27 languages installed
- Additional languages available can be loaded on request
- Display messages shown as floating text
- Easy change of language

Power supply

- Power supply range: 8 to 32V
- Operating power consumption: 70 mA @ 24V (typical)
120 mA @ 12V (typical)
- Power consumption on standby: 2.5 mA @ 24V (typical)
5 mA @ 12V (typical)
- Supply of motion sensor depending on type

Interfaces

- Interface for motion sensor
- CAN interface for connecting to the onboard electronics
- Configurable K-line interface and info-interface
- 6-pin standard front interface for calibration, diagnosis and data download, compatible with leading 3rd party tools and devices
- Engine speed input (RPM)
- Second CAN interface for adaptation of telematics and fleet management systems (e.g. for remote download via FMS)
- Three speed-pulse outputs (one of them configurable)
- Two digital status inputs D1/D2 (logging of user-specific events)
- Signal interface for output of tachograph warnings
- Parameters can be set via different interfaces

Special Features

- Comprehensive implementation of EU-Regulation 1266/2009
- Supports Fleet Management System (FMS) interface (Version 2 or higher)
- Remote data download via vehicle bus
- Automatic setup assistant
- Easy replacement of printer

Technical data

- Dimensions without cover conform with the DIN radio slot according to ISO 7736
- Dimensions of front panel (W x H): 186 mm x 58 mm
- Protection class of device front after installation: IP54
- Protection class of device rear: IP40
- Operational temperature range: -25°C to +80°C
- Storage temperature range: -40°C to +85°C
- Operational printer temperature: -10°C to +60°C
- Weight: 1096 g