



www.dtco.vdo.com

DTCO[®] 3283

Digital Tachograph

The digital tachograph DTCO[®] 3283 convinces by technology, handling, and reliability. It allows digital recording of data, such as driving and rest times, speed, rpm and route of the vehicle as well as information needed for calibration.

The digital tachograph DTCO[®] 3283 contains a cryptographic module (so called NCM = Navigation Cryptographic Module). And the digital tachograph DTCO[®] 3283 provides registration of uncorrectable data on speed and route of vehicle, work and rest hours of the driver a qualified electronic signature to be attached to the protected data which is created in the NCM. The protection of the tachograph data is done in accordance with the legislation of the Russian Federation. The activation of the NCM is necessary for the activation and calibration of the digital tachograph DTCO[®] 3283.

The DTCO[®] 3283 fits into a standard 1-DIN radio slot and consists of a recording unit with mass memory, NCM Module, two fully automatic smart card readers, an integrated printer and display to share information. In conjunction with the intelligent speed sensor and tachograph cards, the DTCO[®] 3283 meets all the requirements of Russian regulation no. 36 dated 13. Feb 2013.

The system calibration is only allowed to be performed from authorized service partners and authority.

Data relating to the vehicle is stored in an integral mass memory with capacity for recording activities for minimum 365 days.

Driver-related data is stored on a personal driver card (smart card) inserted into the digital tachograph before each journey or shift begins.

The DTCO[®] 3283 has interfaces for connecting to on-board electronics or an instrument cluster (electronic speedometer). Mass memory data can be downloaded via the front interface, which is also used to calibrate the system. The digital recorded data can be simply evaluated and archived by, e.g. business management purposes, with VDO offering appropriate solutions such as the TIS-Office[®] software and the TIS-Web[®] Internet evaluation service.

As a comfort function the DTCO[®] 3283 offers the possibility to easily download and transfer wireless mass memory and driver card data via the Download Device (DLD[®]).

VDO

DTCO® 3283

Digital Tachograph

System components of the new digital tachograph

The radio slot-sized DTCO® 3283 includes 2 smart card readers, a printer, a display, a real-time clock, operating controls and data storage facility. In conjunction with the speed sensor and the requisite tachograph cards, the DTCO® 3283 meets all the requirements of the new Russian regulation. The DTCO® 3283 can also be optionally connected to an analogue speed indicator or an instrument cluster.

Data recording

The DTCO® 3283 records driving, work, availability and break/rest times for the driver and crew, the speed and distance travelled, specific parameters such as rpm, and other work processes and events related to the vehicle. The data relating to the vehicle is stored in the integrated memory, while driving and rest times are additionally stored on personal driver cards. The capacity of the system memory is sufficient to record all activities for minimum 365 days. The driver cards hold approximately 28 days of driver activity.

Access rights/data protection

Special tachograph cards are used in the DTCO® 3283 to comply with data protection requirements and ensure security. Fleet operators can protect their data against unauthorised access with a company card. Enforcement officers require a control card to access the system. Authorised workshops and authority can activate the calibration function of the DTCO® 3283 using their workshop card.

Operation and functions

- GNSS
- Dimming function for display illumination and button lighting
- Two fully automatic chip card readers for different tachograph cards
- Simple paper replacement – no tiresome feeding in
- Clear and concise user guidance with menu text
- Automatic driver warning
- Recording and printing of speed/rpm profiles (optional)
- Driver 1 and Driver 2 activities are printable (graphics)
- Status inputs D1/D2 printable as a bar graph (optional)
- Printouts of all vehicle and driver data
- Recording of additional data (e.g. 168 hours speed data recording, odometer reading when vehicle stops)
- Early warnings (advance warnings about periodic inspections and expiry of tachograph cards)
- Download status shown on display

Interfaces

- CAN interface for onboard electronics
- CAN interface for Download Device (DLD®) (optional)
- SensorInterface for speed sensor
- Signal output (2 x v pulse, 1 x 4 pulses/m)
- Diagnostics interface CAN or K-Line
- Info interface for onboard computers or other telematics systems
- 6-pin interface for programming, calibration and data download via Downloadkey
- 6-pin interface for data transfer by wireless (optional)

Suitable solutions for direct data download

- Downloadkey
- Download Device (optional)
(DLD® Short Range and DLD® Wide Range)

Technical data

- Installation dimensions: 178 x 50 x 150 mm (w x h x d), 1-DIN radio compartment format
- Operating voltage: 24 V (optional 12 V)
- Measuring range: 0 to 220 km/h
- Operating temperature: -25 °C to +70 °C
- Storage temperature: -40 °C to +85 °C
- Pulse range: 4,000 to 25,000 pulses/km
- Real-time clock based on UTC time
- Inputs: speed sensor, n-sensor, additional inputs
- Outputs: 2 x v pulse, 1 x 4 pulses/m
- Accuracy: Speed: ±1 km/h, distance: ±1%, time: ±2 s/day
- Weight approx. 1,200 g
- GNSS
- Navigation Cryptographic Module
(encrypted Module with acceleration sensor inside)