



Handling a complex world.



# Fleet Manager 200 Plus

## Transparency and efficiency in your fleet

VDO Fleet Manager 200 Plus is the advanced solution among the VDO Fleet Manager On-Board Computers for:

- Driver, vehicle and passenger data
- Tracking
- Messaging
- 2-way communications
- Standard and user defined events
- Access control
- Trailer ID

## Simple, reliable and secure

Data can be transferred between office and vehicle manually with a green data plug or hands-free with DECT or GSM. Use the FM Software for data analysis and extensive management reporting.

## Ideal for all fleets

The FM200 Plus can be installed in all earth-bound vehicles, special vehicles, other machines such as forklifts etc. It is suitable for vehicles with 12/24V electrical systems.

## Modular and upgradeable

Additional accessories and information systems can be connected to the FM200 Plus at any time:

- For messaging, navigation and tracking
- For driving / standing reasons as well as logistical data
- FM Terminal - Performance data, messaging, data capture
- FM Info - driving reasons / Warnings using visual icons

## Vehicle and driver data that can be evaluated with the Fleet Manager Office software:

- Tachographs - Position of mode switches
- GPS Interface - Active and passive tracking
- GSM-Module / FM DECT-Module - wireless data transfer
- Fuel flow meter EDM - Information on fuel consumption
- Accident data memory UDS - Emergency event
- Axle load measuring unit KIMAX - Loading state, axle load exceeded



# Fleet Manager 200 Plus

## Technical Information

Rated voltage	12/24 Volt Direct Current
Operating voltage	9 ... 33 Volts, max. 40 Volts for 1 hour, 50 Volts for 5 min.
Current consumption	<20 mA (Standby Mode)
Operating temperature	-30 °C...+70 °C
Storage temperature	-40 °C...+85 °C
Rel. humidity	Max. 95%
Clock module	RTC (Real Time Clock)
Backup	Lithium Battery
Memory	1 MB EEPROM (for trips, speedometer data, operating data and device drivers)
Inhibit relay	Max. 25 A
Signaling device	Buzzer (integrated into wiring harness)
Interfaces	I2C for connection to vehicle socket
Dimensions	145 x 90 x 30 mm
Weight	Approx. 190 g
Protection class	IP54

### Vehicle Speed Signal

Signal form	Square wave / sinusoidal signal
Offset (square wave)	-50 - +50 Volt
Voltage PP	> 0,5 Volt
Pulse duty ratio	5% - 95%
Frequency	Max. 5000 Hz
Overvoltage protection	+/- 200 Volt peak, +/- 38 Volt DC

### Engine Speed Signal

Signal form	Square wave / sinusoidal signal
Offset (square wave)	-50 - +50 Volt
Voltage PP	> 0,5 Volt
Pulse duty ratio	5% - 95%
Frequency	Max. 5000 Hz
Overvoltage protection	+/- 400 Volt peak, +/- 50 Volt DC

### Frequency

Frequency inputs	2
Signal form	Square wave / sinusoidal signal
Offset (square wave)	-50 - +50 Volt
Voltage PP	> 0,5 Volt
Pulse duty ratio	5% - 95%
Frequency	Max. 10.000 Hz
Overvoltage protection	+/- 200 Volt peak, +/- 38 Volt DC

### Digital / Analog Inputs

Digital / analog inputs	7
Switching voltage	0 - 5 Volt (20 mVolt Resolution)
(programmable)	0 - 38 Volt (150 mVolt Resolution)
Frequency	Max. 1 Hz

## Set includes

### Product designation

FM200 Plus KIT	X10-723-002-015
Including FM200 Plus Electronic Module	X39-723-002-080
Wiring harness with integrated buzzer	X39-723-002-081
FM read-in vehicle interface with LED	X39-723-002-005
Blue driver's key (driver log-on)	X39-723-002-006

### Accessories (Not included with set)

Green data plug FM200, 96 Kb (Data key)	X39-723-002-057
Green data plug FM200, 256 Kb (Data key)	X39-723-002-033
Armoured housing FM200	X39-723-002-031
One-way screws FM (4x)	X39-723-002-004
FM200 Plus serial cable	X39-723-002-082
FM Dect vehicle kit	X10-723-002-010
FM Dect Base Station	X10-723-002-011

## Functions

### Recording driving data

As a standard feature, the on-board computer records the following data:

- Beginning of trips with date and time
- End of trips with date and time
- Distance driven
- Length of route sections (sub-trips)
- Maximum vehicle speed during each trip
- Maximum engine speed during each trip
- Standing times
- Parking times

### Recording of standard limits that were exceeded

Limits can be defined and recorded for:

- Overspeeding
- Over revving
- Harsh breaking
- Harsh acceleration
- Out of Green Band driving
- Excessive idling

### Recording of user-defined events

In addition to the standard and system events, specific user-defined events can be defined and recorded, for example:

- Cargo door open in no-go area
- Driving without lights on
- Vehicle arrived at customer location

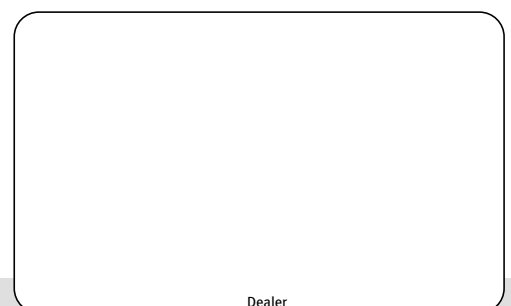
### Driver identification (optional)

Starter interruption to force drivers to log on with blue ID key.

### Audible and visual warning signals (optional)

In addition the driver can be given warning signals (buzzer and LED display) for:

- Malfunctions
- Memory full
- Violations



Dealer