

FM 200







Safety ensured by Pinch Force Measurement

DriveTest GmbH develops and produces test-systems for the worldwide use in the automotive and railway industry. As one of the pioneering companies in the field of pinch force measurement **DriveTest** offers a broad range of different systems for a variety of applications. Every system supports the control of applicable standards. The service comprises the consultation, maintenance and calibration of the measuring devices. Major customers in the automotive industry include Webasto, Daimler Chrysler, BMW and Volkswagen.

The FM 200 from **DriveTest** is an electronic pinch force measuring system for power driven automotive sunroofs and windows. Typical use includes R+D and production testing in the automotive industry. The FM 200 is now also increasingly used by technical safety agencies. Combining rugged construction with

precision, the advanced mechanical design delivers exact measurements, even after years of service in an industrial environment. The FM 200 has been tested and certified by the German TÜV Nord.

Fast and easy performance of repetitive measurements is an important aspect of standard test scenarios. **DriveTest** has responded to this requirement by developing software which streamlines the measurement process and drastically reduces documentation effort. Measurements can be downloaded to a PC, analysed, exported and documented with a minimum of user interactions. Our PinchPilot Software provides also interface like Microsoft® DDE or National Instruments® Labview for remote control in automated environments.

- **Dependable** certified by the TÜV Nord
- Applicable standards 2000/4 EG, US Standard FMVSS 118
- Precision measurements uses frictionless guides and single point load cell
- Robust construction casing manufactured from durable aluminium and stainless steel for long service life in industrial environments
- Ease of Use single button operation or remote controlled via Microsoft® DDE interface or National Instruments® LabView library
- All-In-One package the FM 200 comes with a high-quality transportation case and PC application
- Professional, feature-rich software PinchPilot offers complete functionality
- Complete customer support –
 in-house calibration service, standards
 update service ensures use of newest
 standards version
- Flexible Adaptation wide range of measurement fixtures and custom adapters available from DriveTest

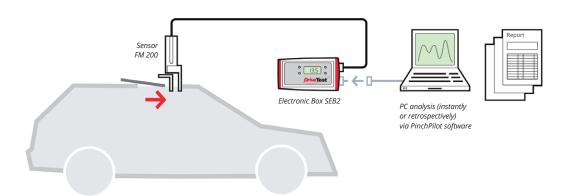






FM 200

Sensor FM 200 Electronic Box SEB2 PC-Analysis-Software PinchPilot Measurement Range: 0-200 N Data logging module (Electronic Multi-Language (DE, EN, IT, FR, ES) (300 N) Box SEB2) with LCD display, LED Graphical display of force vs. time Measurement +/-3 N or 3 % states, button, and serial interface Calculation of relevant parameters Tolerance: whichever is greater Optional PC controlled Assessment with respect to different Stiffness: 10 N/mm measurements standards (20, 65 N/mm) Powered by 9 V bloc battery Support for user defined standards Gap width: Minimum 4 mm Onboard real time clock Printed reports 50 x 50 mm Area: Storage for approx. 100 measurements Data export (Excel, CSV, PDF) Measurement Sensor and PC interfaces Technique: Strain Gauge Bridge Display of peak force and effective force Size: 240 x 85 x 50 mm Pass/fail evaluation Weight: 1.3 kg



What's included?

- Sensor with 2.5 m connection cable
- Seperate data logging module (Electronic Box SEB2) with LCD display, LED states, button and serial interface
- 9 V battery
- Transportation case with foam inserts for ease of storage and transport
- PC connection cable (USB)
- USB memory stick with PinchPilot PC analysis software and documentation
- Users manual
- Calibration certificate

Optional Equipment:

- Device with 5 m cable length (instead of 2,5 m)
- Adapter for external 24 VDC supply
- 230 VAC power adapter
- Fixture set for sunroofs in slide and tilt position
- Mechanical adapters for powered tailgates



System Requirements for PC Analysis Pinch Pilot (included):

- Operating System Windows Vista, Windows 7, 8 and 10
- RAM ≥ 32 MB
- Free Disk Space ≥ 50 MB
- RS232- or USB-Interface

