DriveTest
...test to be sure

Pinch Force Measurement System for Sunroofs, Powered Window Lifters, Doors and Steps

FM 202

Safety ensured by Pinch Force Measurement

DriveTest GmbH developes and produces test-systems for the world-wide 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 devices for a variety of applications. Every device supports the testing of pinch forces according to an applicable standard. Our customer service comprises the consultation, maintenance and calibration of the measuring devices. Major customers in the automotive industry include Webasto, Daimler and Volkswagen.

The FM 202 from **DriveTest** is an electronic pinch force measuring system for power driven closing systems like car windows, sunroofs and doors and for steps in the railway sector.
It allows measurements up to 600 N at a stiffness of 10 N/mm.

Combining rugged construction with precision, the advanced mechanical design delivers exact measurements, even after years of service in an industrial environment.

Fast and easy performance of repetetive 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.

- **Applicable standards** – 2000/4/EG or userdefined
- **Precision measurements** – uses frictionless guides and a single point (platform) 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
- **Professional, feature-rich software** – PinchPilot offers complete functionality
- **Wide range of force** – max. 600 N at 10 N/mm deflection rate over complete range
- **Overrun force** – applicable for overrun force („Überschusskraft“) measurement
- **Complete delivery** – all components packed in high-quality aluminium transportation case

Drive Test GmbH
info@drivetest.de
www.drivetest.de

Adi-Maislinger-Str. 9
81373 München, Germany

Tel.: +49 89 74 34 09 40
Fax: +49 89 74 34 09 49

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Technical specifications*

FM 202

Sensor FM 202

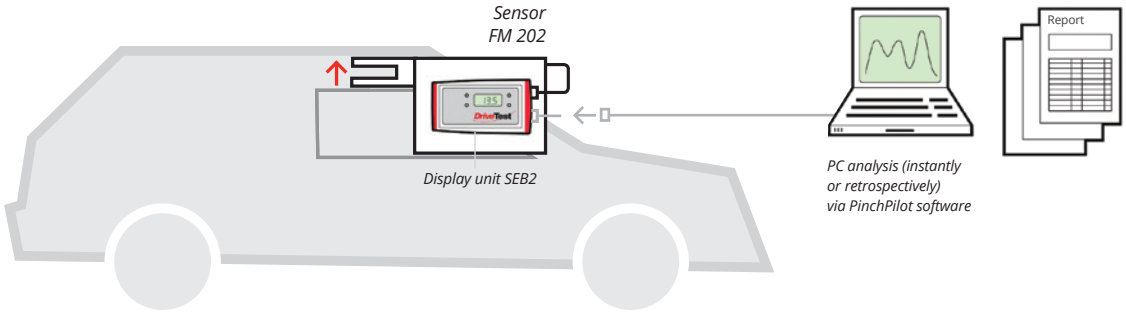
Force entry:	one-sided
Meas. Range:	0–600 N
Measurement	+/– 3 N (0–100 N)
Tolerance:	+/– 3 % (> 100 N)
Spring stiffness:	10 N/mm
Gap width:	minimum 40 mm
Area:	80 x 80 mm
Measurement	
Technique:	Strain Gauge Bridge
Size:	100 x 300 x 190 mm
Weight:	4.2 kg

Display unit SEB2

- Data logging module (Display unit SEB2) with LCD display, LED states, button and serial interface
- Optional PC controlled measurements
- Powered by 9 V bloc battery
- Onboard real time clock
- Storage for approx. 100 measurements
- Sensor and PC interfaces
- Display of peak force and effective force
- Pass/fail evaluation

PC-Analysis-Software PinchPilot

- Multi-Language (DE, EN, IT, FR, ES)
- Graphical display of force vs. time
- Calculation of relevant parameters
- Assessment with respect to different standards
- Support for user defined standards
- Printed reports
- Data export (Excel, CSV, PDF)



What's included?

- Sensor FM 202
- Separate data logging module (Display unit SEB2) with LCD display, LED states, membrane input key and serial interface
- 9 V battery
- Transportation case with foam inserts for ease of storage and transport
- PC connection cable (USB)
- USB stick with PinchPilot PC analysis software and documentation
- Users manual
- Calibration certificate

System Requirements for PC Analysis PinchPilot (included):

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