

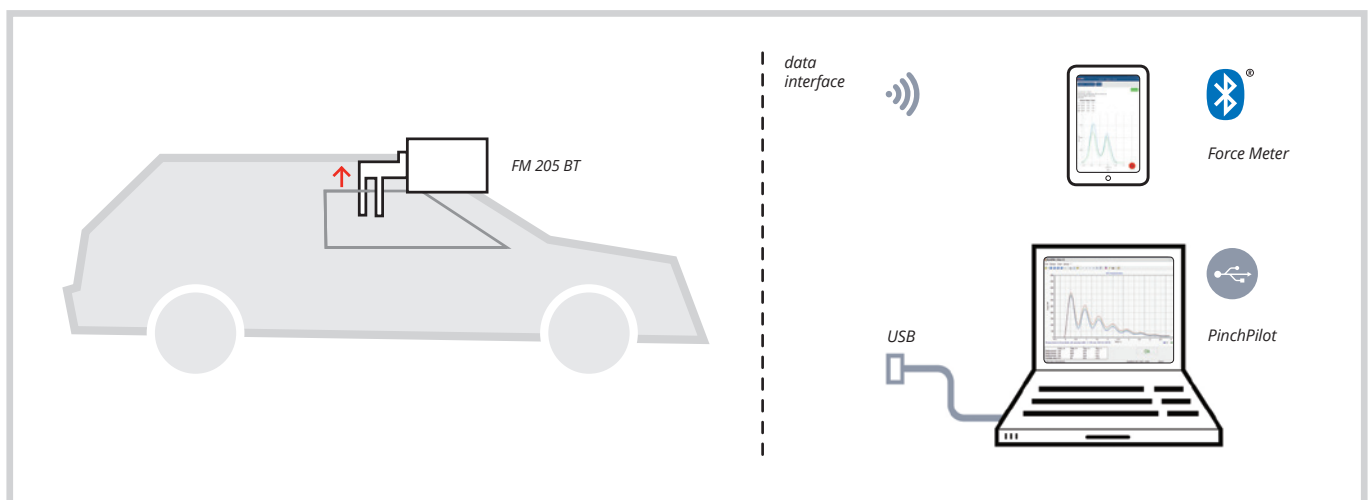
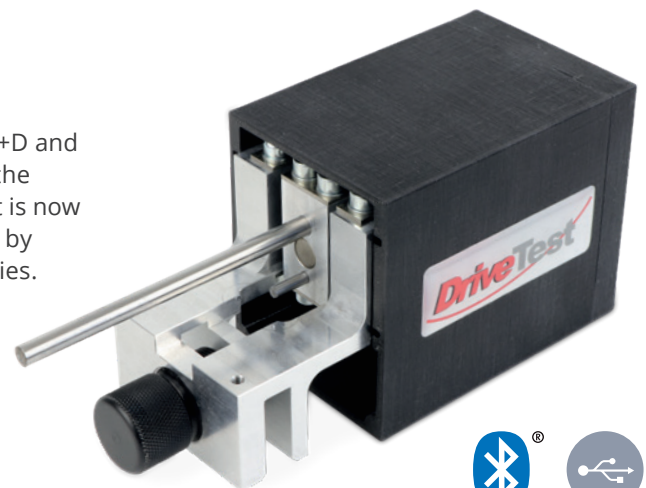


Pinch Force Measurement System for Powered Window Lifters

The FM 205 BT is a wireless pinch force measuring system for powered window lifters. The FM 205 BT is a redesign of the proven and tested FM 205. It combines the customer approved rugged construction and precision of its predecessor with the new flexibility of a wireless solution. According to the requirements of different standards a large variety of spring stiffnesses is available.

Use cases

Typical use includes R+D and production testing in the automotive industry. It is now also increasingly used by technical safety agencies.



Wireless Measurement Device

- Bluetooth connection to your Android device or your PC
- USB connection to your PC
- Instant feedback and on-site evaluation in combination with digital reports saves a lot of time
- Paperless work reduces costs and protects the environment
- Easy to control by single button operation
- Spacers for different gap widths are available: 1, 25, 75, 125, 175 mm

Android App Force Meter

- Intuitive user interface
- Display of the force values in real time
- Calculation of relevant parameters
- Instant feedback for test results
- Guided workflow
- Support for user defined test parameters
- Automatic measurement object detection (QR codes, barcodes)
- Instant report creation (PDF)
- Automatic updates in Google's PlayStore

PC Software PinchPilot

- 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)
- Available for Windows Vista, 7, 8 and 10
- USB connection

Device properties at a glance

Precision measurements

Measurement reliability is ensured by frictionless guides and single point load cell.

Customer service

Our customer service comprises the consultation, maintenance and calibration of the measuring devices.

Robust construction

Casing manufactured from durable aluminium and stainless steel for long service life in industrial environments.

Applicable standards

2000/4 EG, US Standard FMVSS 118, ECE-R 21 (embedded in software)

Fast operation

The FM 200 BT system is set up for measurements in no time. Connect the device to the app via bluetooth, choose the measurement to perform and the system is ready to test according to the applicable standard. The app guides the user through the workflow which is required by the standard. Reports for the performed measurements are instantly generated and are available for sending or storing. The app stores measurements in a database, thereby facilitates the task of recording periodic measurements. Using barcodes or QR codes for identification of tested objects from inside the app is an additional feature preventing errors and making testing even simpler.

Flexible Adaptation

We offer a wide range of measurement fixtures and custom adaptors.

Available in several spring stiffnesses

2, 5, 10, 20, 65 N/mm with different maximum forces

Supported by:



Federal Ministry
of Economics
and Technology

on the basis of a decision
by the German Bundestag

Technical specifications

Force initiation:	one-sided
Measurement range:	0-260 N
Accuracy:	+/- 3 N (0-100 N) or +/- 3% (> 100 N)
Available stiffnesses:	2, 5, 10, 20, 65 N/mm
Gap width:	25 mm / 30 mm
Area:	5 x 80 mm
Measurement technique:	Strain Gauge Bridge
Size:	200 x 75 x 57 mm
Weight:	ca. 400 g



About us

Drive Test GmbH develops and produces test systems, control units and force sensors for the automotive industry for more than 20 years. Based on these experiences, the FM 205 BT has been developed.