

Test unit for door closing systems SCHATZ®INSPECT

SCHATZ®
ADVANCED QUALITY



- parameter setting (e.g. right door, left door,...)
- storage of up to 250 measurements
- computer-assisted SPC function
- battery operation including calibration unit

Applications

In vehicle bodywork construction or in final assembly the ease with which the door can be closed after fitting is an important factor.

This portable measuring unit is ideal for random sampling for auditing purposes or for obtaining characteristic values in the laboratory.

Mains-free operation enables the unit to be used for continuous on-site testing.

The spring unit guarantees reproducible results with ease of operation.

The calibration unit supplied with it facilitates regular monitoring of the recorded measurements.

Description

The unit consists of a spring unit with integral tractive force sensor and analysis unit. The door is opened manually until the tractive force is reached. The door is then closed by the spring unit and the internal micro-processor calculates the energy that was required to close the door.

The bevel-angled housing with a large display on either side enables driver and passenger door to be tested from the relevant angle of view.

The vehicle power supply can illuminate the display for easier reading.

The readings obtained are recorded separately for each door and vehicle type. When a series of measurements has been concluded the data can be downloaded onto a PC with SPC software.

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Technical data	
Model No.	5413-5005
Max. measurable tension	140 N oder 280 N (5005L)
Sensor capacity	500 N
Storage capacity	250
Measuring points	10
Measuring unit	Force N Energy Nm
Basis of calculation	$E = \frac{1}{c} [F_1 \cdot x F_0 - F_0^2 + \frac{1}{2} (F_1 - F_0)^2]$
Measurement value resolution	Force 1 N Energy 0,01 Nm
Filter frequency	100 Hz
Signal amplification	DC precision amplifier
Rated temperature range	10 . . . 40° C
Storage temperature range	-20 . . . 50° C

Dimensions / Connection data	
Plug-in connections	Mains: External voltage box (incl. charging unit) 110 or 230 V On-board supply: cigarette lighter socket RS 232C: Canonflange socket, 25 pin DB 25 Sensor: Amphenol MS 310 A-14S-6S
Dimensions L x W x H	Measuring unit 180 x 180 x 125 mm Spring unit 60 x 475 x 33 mm Calibration unit 120 x 700 x 75 mm
Weight	Measuring unit 2,7 kg Spring unit 1,5 kg Calibration unit 4,9 kg
PC-Software	SPC WIN 98 CEUS 8.0