




Mobile Measuring Device for Determining the Sliding Friction Coefficient of Floor Coverings

in accordance to DIN EN 13893, DIN EN 16165 and DIN 51131

GMG-200



- Mobile measuring device with battery operation
- Robust design
- Plain text display of the measured values
- Power indicator and charge level indicator
- Automatic recognition of the slider material
- Easy activation of the measuring mode via start button or foot control
- Storage of up to 90 measurement curves

Developed in collaboration with: **DGUV** 

Sliding Friction Tester GMG-200

The GMG-200 sliding friction tester is used for routine testing of sliding friction on various floor coverings. The sliding bodies are interchangeable, thus different floor coverings can be measured in conformity with the standard. The type of sliding material is electronically detected and recorded in the report. The LCD display allows simple user guidance as well as the display of current operating states and the measured sliding friction values.

The optionally available software allows the measured values to be transferred to a laptop or PC. The software allows selection and precise evaluation of the measured curve characteristics and any target deviations. A measurement report can subsequently be printed out. The instrument can store a total of 90 measured curves, which corresponds to 18 sliding friction measurements with five measurement runs each.

The measurement of the coefficient of friction μ is used to determine the slip resistance of floor coverings. Physically, this is the coefficient of sliding friction μ , which is smaller than the coefficient of static friction μ_0 for most material pairs. As a rule, the coefficients of sliding friction are determined separately for each material pair. To calculate the coefficient of sliding friction, the tensile force is measured that must be applied to pull a body with a known mass over a measuring surface.

Software GMG-Vision

The GMG-Vision PC software ensures convenient transmission and evaluation of measurement results from GMG sliding friction gauges. The Windows-based software visualizes, logs and archives the measurement data of GMG sliding friction gauges. Via an interface, the measurement results can be transferred to a PC or notebook at the click of a mouse. The user can call up the exact curve progression of each individual measurement run and visualize it graphically. In a second step, the software assists in the creation of a standard-compliant measurement report, that can be printed or output as a Word file. Companies have the option to store their data and a logo in the software and thus individualize the measurement reports.



Lorem ipsum

Technical Data:

Power supply:	Lead gel battery	Pressure on sliders:	9 N/cm ²
Power supply (battery charger):	230 VAC +10% / - 15%, max. 20 VA	Range of friction coefficient:	0,01 ... 1 Auflösung: 0,01
Power consumption:	At max. motor capacity: ≤ 8 A	Measurement uncertainty of measuring device	≤ ± %1 v. EW. plus errors caused by vertical or horizontal off-track traction and floor coverings that are not horizontal
Interface:	RS-232	Adm. vert. off-track traction:	±1 cm/m
Power connection:	Socket for power supply	Adm. hor. off-track traction:	± 1 cm/m
Memory for measuring curves:	90	Degree of protection:	IP20
Temperature range:	-10 ... +40 °C	Accessories:	Adapter cable, standard sanding paper, carrier plate, gliders and glider plates, Set GMG-
Relative humidity:	20 ... 90 % r. h. (non-condensing)		Natriumlaurylsulfat ≥ 99 %
Dimensions of measuring surface:	11,25 cm ²		
Dimensions including handle:	160 mm x 200 mm x 150 mm (l x w x h)		
Weight:	~ 10 kg		
Traction speed:	0,2 ... 0,25 m/s ± 0,02 m/s		

