



CODE ..... **GT1558**  
 MODEL ..... **GMG-200**  
 EXTERNAL DIMENSIONS ..... 160x200x150 mm  
 POWER ..... 80 W  
 WEIGHT ..... 9,5 kg


**Simple activation by foot plate operation:**

1. switch on unit.
2. activate push button „cable extension“ and extract cable to full length.
3. (or pull cable to required length and press the „Stop“ button).
4. fasten cable to the foot plate and step on foot plate to fix it in place.
5. measurement is started by slightly stretching the cable using the foot plate.
6. read measured value from the display or transfer data to PC or laptop for evaluation.

According to CEN/TC 134 (Draft 134 WI 033) “Equipment for the Measurement of Sliding Friction Coefficient on Floor Surfaces” the instrument used to measure the dynamic friction coefficient (sliding friction) has to fulfil the following criteria:

- Sliders equipped with specified sliding friction material and form
- Pressure on sliders between 8 and 10 N/cm<sup>2</sup>
- Total surface of sliders is larger than 5cm<sup>2</sup>  
One slider larger than 2,5cm<sup>2</sup>.
- The test unit has to be pulled along the floor covering to be tested at a constant speed
- Evaluation as the average value over a minimal length of 50 cm at a constant speed
- Climatic parameter recordings

**TRIBOMETER GMG-200**
**STANDARD**

DIN 51131, EN 13893, complies to CEN/TC 134 (Draft 134 WI 033), UNI CEN/TS 16165:2012 (E)

**DESCRIPTION**

Tribometer is a mobile instrument for measuring the coefficient of sliding friction of floorings conforming to DIN standard 51131 and EN 13893. The measuring instrument consists of an active sliding unit, a set of interchangeable sliders, fastening angle for the traction cable and pack of rechargeable batteries. The sliding unit contains the traction mechanism, sliding friction measuring electronics, LED indicators and a battery charger. The slide measuring instrument standard design GMG 200 is for the routine control of sliding friction on various floor coverings. The sliders can be interchanged depending on the floor covering. The material of the sliders, the actual ambient temperature and humidity are also detected and recorded in the report. The LED indicators are a simple users guide, indication of actual working conditions and computed sliding friction coefficients. The integrated data interface RS232 allows a transfer of the measured values to a laptop or a PC, which enables a choice and precise evaluation of the measured traces of curves and deviations from nominal values to be made. A standard report can be printed. The necessary software GMG – VD is separately available. The instrument can store up to 90 measured curves (e.g. 18 measurements each with 5 curves).

- One-hand battery-operated measuring unit robust design
- Measured values and nominal value deviations in clear-text indicator
- Operation display, indication „power on“ and „battery low“
- Free memory , slider materials, temperature and humidity displays
- Simple activation of measuring mode after switching on by pressing the „ Start“ button or by foot operation
- Permanent storage of measuring curves also after unit has been switched off
- Interface to PC or laptop

**TECHNICAL SPECIFICATIONS**

- Current supply: Integrated lead-gel rechargeable battery
- Battery charger: 230 VAC +10% / - 15%, max. 20 VA
- Current consumption: <math>\leq 8 A</math> at max. motor power
- Power connection (charger): Power supply plug
- Interface: RS 232
- Memory for measuring curves: 90
- Temperature range: -10°C ... + 40°C
- Rel. Humidity: 20 - 90 % r.H. (non condensing)
- Dimension of measuring surface: 10 cm<sup>2</sup>
- Traction speed: 0,2 m/s +/- 0,01m/s
- Pressure on sliders: 8 N / cm<sup>2</sup>
- Range of friction coefficient: 0,01 – 1 resolution 0,01
- Accuracy: <math>\pm 1\%</math> of final value plus faults caused by vertical or horizontal off-track traction caused by floor conditions at site
- Admissible vertical off-track traction: +/- 1cm on 1m
- Admissible horizontal off track traction: +/- 1cm on 1m
- Temperature measuring range: -10°C – 50°C +/- 1°C
- Humidity measuring range: 20 – 90 % +/- 7%
- Slider with leather

**EQUIPMENT**

- Slider with rubber (4S) Four -S
- No.5 slider holders
- Punching tool Ø9 mm for cutting rubber on leather
- Battery charger 230 VAC-50-60 Hz

**ACCESSORIES AND SPARE PARTS**

GT1581	Slider Rubber according DIN-51131
GT1582	Slider Leather according DIN-51131
GT1583	Sanding block according DIN-51131
GT1584	Set abrasive paper B 115x320 mm SIC 320
GT1585	Software for automatic data transfer to laptop or PC Connection cable (data transfer)
GT1586	Calibration report
GT1587	Converter RS232 to USB