



GTE Industrieelektronik GmbH
Helmholtzstr. 21, 38 - 40
41747 Viersen, GERMANY
Tel.: +49 (0)2162 3703 0
Fax: +49 (0)2162 3703 25
E-Mail: info@gte.de
Internet: www.gte.de

GTE Industrieelektronik

Product division measurement and sensor technology

KMG-Lite



Hand-held instrument for measuring dynamic forces at closing edges of power-operated doors and gates

The on-site closing force meter conforming to EN 12453, EN 16005 and the German work place regulation ASR A1.7

KMG-Lite

Automation of gates and doors is state of the art and useful for a vast variety of applications. But power operated doors and gates can also be dangerous machines, if they are not equipped with necessary safety installations. Moreover periodic maintenance is inevitable to ensure safe operation. Safety requirements for power operated gates are given in the Machinery Directive and in European Standards EN 12453 and EN 13241. Furthermore EN 12453 specifies test methods. One basic element of the test procedure is the measurement of closing forces. Only well adjusted gate systems that detect collisions can comply with the specified closing force limits.

GTE Industrieelektronik GmbH was the first company to develop an electronic closing force measurement instrument and is now presenting its latest and best value gate and door force tester called KMG-Lite. KMG-Lite was specially designed for quick and easy on-site force testing on all kinds of power operated doors and gates.

After activation the device is instantly ready for measurement. As soon as a 20 N trigger force is detected, KMG-Lite automatically starts its measurement and evaluation. After five seconds measurement time it displays the values of the dynamic maximum force F_{dyn} , the dynamic time duration t_{dyn} and the static end force F_{end} . Limiting values for these parameters are specified within EN 12453.

In combination with the KMG-Lite Spacer-Set closing force measurement at the most important EN 12453 test points becomes as easy and fast as it gets.

- **Stand-alone one-hand gauge** (no laptop required!)
- **Easiest handling**
- **Optionally with wireless module (retrofitable)**
- **Mechanical overload protection**
- **Voltage supply with standard AA-batteries**
- **Automatic measurement trigger**
- **Automatic EN12453 evaluation**
- **Robust tripod and spacer set available**

For further information and RFQ please visit:
www.kmg-lite.com



KMG-Lite Spacer-Set

Specifications:

Voltage supply:	3 x 1,5V - AA - Batteries (Mignon)
Power consumption:	< 25 mA
Battery duty:	> 100 hours
Temperature range:	0 ... 40 °C
Humidity range:	20 ... 90 % r. H. (not condensing)
Dimensions of measurement plane:	80 mm Ø, Höhe 50 mm
Dimensions of housing:	250 x 80 x 50 mm (L x W x H)
Weight:	1 kg
Measurement range:	25 N ... 1600 N
Measurement accuracy*:	typ. < 10 N
Measurement error (max.):	25 N ... 200 N: ± 10 N 200 N ... 1600 N: ± 5 % of reading
Spring rate (mech. filter):	500 N/mm
Slew rate / fall time:	≤ 5 ms

* Maximum accuracy only possible when force is applied vertically and axial.