

GTE Industrieelektronik

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The on-site closing force meter conforming to EN 12445, DIN 18650 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 12445 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_{dvn} , the dynamic time duration t_{dvn} 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 12445 test points becomes as easy and fast as it gets.



- Stand-alone one-hand gauge (no laptop required!)
- Easiest handling
- Illuminated numeric display
- 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.de



Specifications:

3 x 1,5V - AA - Batteries (Mignon) Voltage supply:

Power consumption: < 25 mA Battery duty: > 100 hours

Temperature range: 0 ... 40 °C Humidity range: 20 ... 90 % r. H. (not condesing)

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

25 N ... 1600 N Measurement range:

typ. ± 0,4% of 2000 N @ T=20°C Measurement accuracy*:

25 N ... 399 N : 1 % of 2000 N Measurement error (max.):

400 N ... 1399 N : 2 % of 2000 N 1400 N ... 1600 N: 3 % of 2000 N

Spring rate (mech. filter): 500 N/mm Slew rate / fall time: ≤ 5 ms

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



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