

KG-06 SERIES EXTENSOMETER

FEATURES _____

- Transducer with Strain Gauge technology
- Impedance 1000 Ω
- Temperature-Compensated
- Protection Class IP65
- Compact Dimensions (6.5mm height)
- Robust Design
- Very Flat Construction
- Easy mounting on machined flat surface
- Maintenance-free

DESCRIPTION _____

The Magtrol KG-06 Extensometer is designed for measuring deformations of construction or machined parts under load. Because its output signal is proportional to the applied load, it can be used as either a load cell or a force transducer.

APPLICATION _____

The KG-06 Extensometer is ideal for strain measuring where large transducers are not suitable. Its small dimensions and flat mounting allow for easy control of deformations on steel structures.



Fig. 1: KG-06 | Extensometer

DIMENSIONS & MOUNTING _____

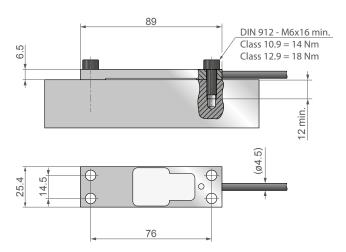
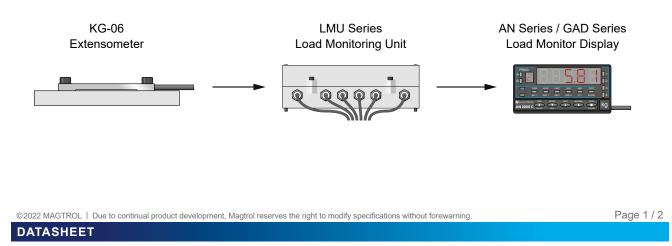


Fig.2: Dimensions and indication about the tightening torque to be applied to the screws

SYSTEM CONFIGURATION _____



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SPECIFICATIONS _

MEASUREMENT			
Nominal Traction & Compression Deformation (ε)	0250 µm/m		
ELECTRICAL CHARACTERIST	ICS		
Nominal Sensitivity	+0.5mV/V ^{a)}		
Output Impedance	1000Ω (±10Ω)		
MECHANICAL CHARACTERIS	TICS		
Maximal Usable Load	150 % of Final Value		
Material	Steel		
ENVIRONMENT			
Temperature Compensation	For steel with $\alpha = 12 \cdot 10^{-6}$ as standard		
Operating temperature	-10 °C + 65 °C		
Protection class	IP65		
ELECTRICAL CONNECTION			
Connection cable	Shielded PVC cable; length 3m ^{b)}		
		Red	Supply +
		Black	Supply -
Wiring diagram		Green	Signal +
	Shield isn't connected to the housing	White	Signal -
a) Units calibrated with tolerance of $+2\%$	h) Other cable lengths available upon request		

a) Units calibrated with tolerance of $\pm 2\%$ upon request

b) Other cable lenghts available upon request

OPTION & ACCESSORIES

LMU SERIES - LOAD MONITORING UNITS

The Magtrol Load Monitoring Unit is specially designed for strain gauge transducer applications. Specifically developed for use with Magtrol load-force-weight sensors, the LMU Series provides excitation current and amplifies the output signal of full-bridge strain gauges.

AN SERIES - SIGNAL CONDITIONERS

The AN Series Load Monitor is designed to process and display signals coming from various types of transducers (weight, load, pressure, torque, etc.) that use standard straingauge bridges.

Fig. 5: AN 1500 M | Signal Conditioners



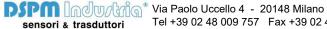
Fig. 4: LMU 216 | Load monitoring units

ORDERING INFORMATION _

ORDERING NUMBER

P/N 957-51-22-8501





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