



SI-H KG Series Force Transducers


Force Transducers for Muscle Research

KG-series force transducers measure a large range of detectable forces. The transducer with the highest sensitivity has a resolution of $0.2\mu\text{N}$, sufficient to measure the force of a single heart cell. All transducers are extraordinarily rugged, withstanding even overload forces.

- Anti-oscillation option that eliminates the native resonance frequency of the transducer and mounting support for unparalleled low noise recording and fidelity
- Lifetime warranty on the optical transducer heads

Also available:

- Stainless steel tweezers for fiber mounting
- Spray water protected version of all transducers
- Single and double bridge amplifiers



Force Transducers

KG2	range 0 - 1N resolution 0.4mN
KG2A	range 0 - 0.5N resolution 0.3mN
KG4	range 0 - 50mN resolution 15μN
KG4A	range 0 - 20mN resolution 4μN
KG7B	range 0 - 10mN resolution 1μN
KG7A	range 0 - 5mN resolution 0.4μN
KG7	range 0 - 5mN resolution 0.2μN

Mounting Devices

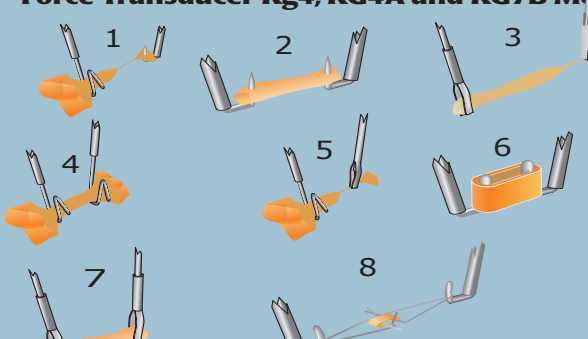
A variety of convenient fiber mounting devices are available in two lengths and two shaft diameters.

Length: The 32mm length is ideal for standard, isometric forces. Choose the 22mm length when using a motor.


Shaft diameter : Use 0.8mm for the KG4 and KG7B force transducers, and the 0.5mm for the KG4A and KG7.

The KG20 and the KG2 have unique mounting devices.

Force Transducer Kg4, KG4A and KG7B Mounting Devices



Force Transducer KG2A Mounting Devices



1. papillary muscle
2. general purpose
3. small skeletal muscle
4. trabeculae
5. papillary muscle
6. muscle rings
7. general purpose
8. muscle rings
9. strong skeletal muscle
10. strong skeletal muscle
11. very strong skeletal muscle



The KG Force Transducers are designed for use solely with the SI-BAM21-LC optical force transducer amplifier.