



**Aurora Scientific Inc.** specialises in the design and manufacture of research instruments. Our main product line is designed for muscle physiology research but we also offer products for microseismic measurements in mines and products for gas dispersion studies. The muscle physiology products include: force transducers, lever systems, stimulators, control software and test apparatus. These products are designed for testing force-length-velocity relations in a wide variety of natural and artificial fibres. All these instruments offer superior performance, high quality and excellent flexibility. Instruments are sold individually or in complete systems.

Complete Systems:



[1200A Intact Muscle Test System - 1N Force](#)

[1205A Intact Muscle Test System - 10N Force](#)

Complete test system for evaluating the mechanical characteristics of intact muscle with peak forces of up to 1N or 10N. The muscle preparation is held vertically in a water-jacketed bath. Both force and length are controlled and measured with this system. Length-tension, force-velocity, force-stimulation frequency, stiffness and work loop protocols can all be measured with this system.

[1400A Permeabilized Fiber Test System - 100mN Force](#)

Complete test system for evaluating the mechanical characteristics of permeabilized fibers with peak forces of up to 100mN. The test apparatus fits on an inverted microscope which allows for observation and fluorescence measurement. The bath plate contains 6 wells for different calcium concentrations. The motorized translation system moves the bath plate relative to the fiber. Both force and length are controlled and measured with this system. kTR, pCa-force, length-tension, force-velocity, and stiffness can all be measured with this system. [802B Permeabilized Fiber](#)

[Test Apparatus](#)

For testing permeabilized fibers with the ASI model 312C or 322C high-speed length controller and a 400A series force transducer

