

Product Name : Artificial Muscle Trainer for Physics Electric Labs	Product Code : BSC-TR-54
 The image shows a black rectangular box labeled 'Artificial Muscle Trainer'. The top panel features a digital display, a large analog scale, and several control knobs and switches. A diagram of a muscle fiber is visible on the right side of the panel. The box is surrounded by a repeating watermark of the word 'NAUGRA'.	
Description : Artificial Muscle Trainer - Features:IPMC samples. Microcontroller based display Artificial Muscle Trainer is designed to provide exposure of working with Ionic Polymeric Metal Composites (IPMC) Artificial Muscles. IPMC is abbreviation of Ionic Polymer Metal Composite or Compound. It is a synthetic replacement for damaged human muscle tissue or a powerful alternative for hydraulic machinery that runs on electricity. Developed for use as artificial muscles, IPMC can result in a large shape deformation by applying a low voltage. Applying a mechanical force to the substance will result in a proportional voltage being applied onto the surface. Because of this it can be used as a Sensor and an Actuator. IPMC is a type of electro active polymer It can be manufactured and cut in any size and shape or in particular in the form of micro Sensors and micro Actuators for MEMS applications. It consists of Nano sized metal particles, and a very flexible polymer that never wears out (or at least takes a long time). IPMC samples Microcontroller based display Angular scale for displacement measurement Precise Signal conditioning	

Self-contained and easy to operate

Learning material CD

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