

sTEEm-at-Work

Puzzle #59

Monitoring devices in miniature surgery

Data from a test evaluation of a miniature implanted pump, pump DP-3ml, for insulin delivery was obtained by a biomedical technician. In its normal implanted operation mode, power consumption (energy use) is an important characteristic of the pump. For this particular pump design, the pump is expected to use a total of 0.70 Joules of energy upon completion of the 3.5 second test. The technician knows that the energy used is the product of the power (joules per second) and the time (seconds) the pump is operating. Thus, the technician can examine the data collected and determine if the pump meets the test design criteria.

Pump DP-3ml meets test criteria.

yes or no

