

UCI CI-SS Laboratory Exercise

Flow Measurement; assembly, testing, and calibration

All combustion systems rely on the delivery of fuel and oxidizer at the appropriate rate. Hence, establishing a leak-free, calibrated flow system is an important component of any combustion experiment. Flow measurement can be accomplished using a variety of commercial devices, but all such devices rely on some fundamental property of the flow to measure the flow rate. As seen in the graphic, this experiment just brushes the surface of this important measurement skill. In keeping with the research theme, the tasks are not rigidly defined but are designed to encourage exploration within the parameters of the following components:

