

Phase 1 Instruments Controller Exercise 2.

Name :-

Date:-

Aim - The aim of this exercise is to show how the output to a valve alters with a change in the measured value.

Read all instructions before starting exercise!

This exercise is to be carried out on the PRESSURE controller on the Instrument rig

1. Isolate the Pressure Valve air supply on the back wall
2. Identify and disconnect the wires to the input of the controller.
3. With a mA Loop Calibrator set to the SIMULATE mode, connect to the input of the controller (where the previous wires were connected) and set to 12 mA.
4. Measure volt drop across the resistor with a DVM and record. $V =$
5. Press X three times until STI 1 is displayed and using the right-hand knob adjust to 10.00. Press "STORE"
6. With the controller on manual (press A/M button) alter the output value and observe the change on the Valve Position Display.
7. Switch to Auto mode and set the Set Point to 50%. Slowly adjust input current with up/down arrow buttons on simulator and record change on the Valve Position Display.

Controller input value %	C/V position
0	
25	
50	
75	
100	

Reset STI to 0.04