FLOW LABORATORY





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Flow Measurement and Control Test Rig.

Rs. 34,73,241/-

Three test rigs - 3" water line, 1" water line and 1" air line

- **Available Instruments:**
- Variable Head Type flow meter (orifice), Turbine flow meter, Electromagnetic flow meter, Coriolis mass flow meter, Vortex flow meter.
- Pressure and temperature transmitters, flow transmitters and pneumatically actuated control valves with positioner.
- Transmitters are interfaced to Distributed Control System (Yokogawa DCS CENTUMCS 3000) through suitable input-output modules as well as to the Multi-loop PID Controllers (US 1000).



- UGC-SAP-DRS-I Project
- 'Flow Measurement and Control Test Rig'
 - comprises of three test rig: 3" water line, 1" water line and 1" air line
 - The sensors, flow meters and control valve are all interfaced with the Distributed Control System (Yokogawa DCS-) and through local controllers
 - Students can execute their control algorithm either through the DCS or through the local controllers
 - can be used for
 - flow measurement and control,
 - calibration of flow meters using gravitational flow and forced flow,
 - dual phase (air and water) flow measurement and control.