

DATA ACQUISITION SYSTEM



SPECIFICATION:

- * S.S. measuring tank,
- * S.S. sump tank,
- * S.S. body pump,
- * Four type of transmitter (pressure, flow, temperature and level), with data acquisition module hardware
- * As well as software With fitting on stand.
- * Industrial PID controller to ON/OFF, P, PI, PID for temperature.

LEVEL CONTROL SET UP WITH LEVEL TRANSMITTER



SPECIFICATION:

- * Level transmitter,
- * Auto- Manual PID controller (with three term facility), communication facility,
- * Control valve, I/P converter, S.S. sump tank,
- * Measuring tank of suitable height with sight glass,
- * S.S. body pump, circular chart recorder,
- * Software with necessary fitting to run the setup mounted on suitable frame structure

EXPERIMENTAL FOR FLOW MEASUREMENT



SPECIFICATION:

- * Valve with built in I/P converter ,
- * S.S Pump tank, rotameter,
- * PC Software with necessary fitting to run the setup with 10 bit controller device with analog & digital IOs, USB,
- * PC Software for data monitoring ,
- * Logging and control with current and historical data

MULTI FUNCTION PROCESS CONTROL SYSTEM



SPECIFICATION:

- * True distributed control system having dedicated redundant function controller, power supply, communication modules, and integrated software modules, algorithms for complex process control.
- * With Level transmitter, pressure transmitter, flow transmitter, temperature transmitter, Control valve, I/ P converter,
- * PC based PC Software for data monitoring, logging and control with current and historical data with intuitional practical setup

STATIC PRESSURE & AIR PURGE TYPE



SPECIFICATION :

- * Static pressure and air purge Level Indicator with glass tube,
- * SS purge pipe.Fixed on tank having minimum height of 1000 mm height.
- * Static Pressure gauge air purge gauge with 6 inch dial and isolation valves.
- * FR unit for air supply and reference bubble column used for air purge

CALIBRATION TEST BENCH



SPECIFICATION :

- * Complete test bench with selfpowered which produces and measures of Voltages, current and resistances.
- * Calibrator for calibration and testing of A.C. Millimeters, Ammeters, Voltmeters and D.C. Millimeters, Ammeters, Millivolt meters, Voltmeters and Ohmmeters (Resistance)

EXPERIMENTAL SET UP FOR TEMPERATURE CONTROL AND MEASUREMENT



SPECIFICATION :

- * Temperature transmitter,
- * Auto- Manual PID controller (with three term facility),communication facility,
- * Control valve, I/P converter, rotameter,
- * S.S. body pump,
- * S.S. sump tank,
- * Water supply tanks, circular chart recorder, necessary fitting to run the set up

REAL PID CONTROLLER TRAINING KIT



SPECIFICATION :

- * Pump, sump tank, Heater tank,
- * PC based PID controller module with all three (P+I+D) mode and
- * Auto and manual mode facility to study the PID control action mounted on suitable frame structure.

PNEUMATIC TRAINER



SPECIFICATION :

- * Pressure Gauge, Pneumatic Motor,
- * Single Acting Cylinder, Double Acting Cylinder,
- * Air Filter Regulator Lubricator with Pressure
- * Gauge Hand Lever Operated Valves: 2 Nos,
- * 5/2 way & 3/2-way, Solenoid Valve: 2 Nos,
- * 5/2 way & 3/2 way, Pilot Operated Valve:
- * 5/3 Spring Centered, 5/2 Spring Returned,
- * 3/2 Pilot Operated, Palm Operated Valve
- * 3/2-way Valve, Shuttle Valve

DEAD WEIGHT TESTER



SPECIFICATION :

- * Range of 0.5 – 30 kg/ cm²,
- * Step Size of 0.1 kg/cm²,
- * Accuracy of 0.2 to 0.1 %, to
- * To Study the calibration of pressure gauge.
- * Comparator having standard gauge.

HYDRAULIC TRAINER



SPECIFICATION :

- * Equipment trays - 2nos., Pressure gauges,
- Hydraulic Motor, 4/2 & 4/3 (with different mid position) way hand lever valve - 3nos each,
- * Pressure sequence valves & pressure reducing valve – 2 nos each, pressure relief valves,
- * Flow control valves & Non-return valves-2 Nos *
- * Each (one each sub plate type), Shut-off valves,
- Diaphragm accumulator, Weight up to 10kg- 1 no
- * 2/2 way plunger /stem actuated – 2 nos.,
- * Standard hoses with quick connectors

INSTRUMENT TEST BENCH WITH CUPBOARDS



SPECIFICATION :

- * 30 MHz Oscilloscope,
- * Function Generator with Frequency Range of Sine wave 1mHz - 10MHz,
- * Dual DC Power Supply, 0-32 V, 0-2 Amp with color LCD for Voltage and Current readout.,
- * 4 ½ Digit LCD Large display
- * Digital Multi meter,
- * 1KHz LCR Meter with LCD Display,

DISSOLVED OXYGEN MEASUREMENT SETUP



SPECIFICATION:

- * SS Measuring Tank,
- * Dissolved oxygen Meter,
- * Dissolved oxygen sensor,
- * Mini air compressor,
- * Hardware and electrical accessories on stand

PH METER



SPECIFICATION:

- * Digital, with PH range of 0 – 14 pH,
- * Millivolt Range of 0 - + 1999 mV,
- * Temp.Compensation Auto /Manual with auto calibration facility and electrodes

CONDUCTIVITY METER AND TDS METER



SPECIFICATION:

- * Conductivity meter Microprocessor based, auto ranging, Automatic End point function,
- * LCD display, Accuracy $\pm 1\%$ F.S., up to 3-point calibration, reset function, conductivity buffer option, Hold and Auto off function, temperature compensation.
- * T.D.S. Analyzer: Microprocessor based, Auto ranging, Automatic End point function,
- * LCD display, Accuracy $\pm 1\%$ F.S.,
- * TDS factor 0.1 to 1.0, selectable TDS conversion factor and temp. units

POTENTIOMETER / THERMOCOUPLE TEST SET



SPECIFICATION:

- * Resistance feeding For RTD transmitter with digital display
- * Milli volt source for voltage feeding to thermocouple transmitter
- * Measurement of milli volt and resistance of sensors
- * Heating source with temperature change and display like muffle furnace or dry block type up to temperature range 6000 or above

PRESSURE TRANSDUCER TRAINING KIT

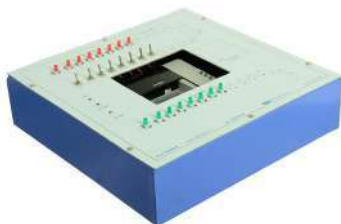


SPECIFICATION:

All transducers having range such that change in output of each can be identify

- * Potentiometer
- * Capacitive
- * Reluctive
- * Strain gauge
- * LVDT
- * Load cell Servo type
- * Piezo resistive

MICRO PLC TRAINER



SPECIFICATION:

PLC: with Digital Inputs/Outputs :

- * 16/16 or 8/8 DC Powered brought on front panel on 2mm sockets
- * Memory: 128 KB Application, 32 KB Data, 48 KB File Marker
- * SCADA Port for SCADA application
- * CoDeSys Software:
- * Offline, Online, Debugging features & Auxiliary functions are available on the finger tip of the user.
- * Password protection for projects & FB libraries
- * Modular programming

SENSOR TRAINER KIT



SPECIFICATION:

- * Arduino based programming
- * Sensors are mounted on PCB
- * RTD, NTC Thermistor,
- * LM 35 , Thermocouple,
- * J,K Type and AD 590 Photovoltaic ,
- * Photoconductive,
- * Photo transistor and Photodiode,
- * Air Humidity and Temperature

HART / FIELD DEVICES (PRESSURE/FLOW/LEVEL)



SPECIFICATION:

- * All Transmitters with HART / Field Bus compatible
- * 4-20 mA output and mA indicator
- * Necessary Power supply to operate