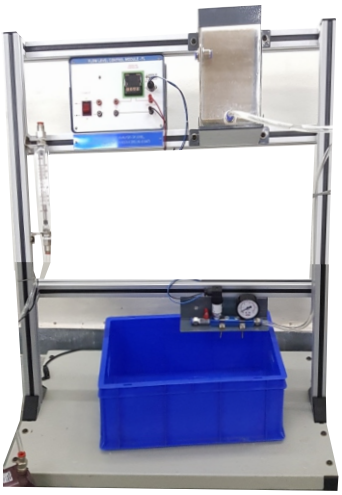
KPC-04 LEVEL PROCESS CONTROL TRAINER



KPC-04 Level control trainer is designed for understanding the basic Level control principles for the Level Process control mounted on Aluminum profile rack with sturdy table top flat panel. The process setup consists of supply water tank fitted with pump for water circulation. The level transmitter used for level sensing is fitted on transparent process tank. The process parameter (level) is controlled by microprocessor based digital indicating controller which manipulates pneumatic control valve through I/P converter. A pneumatic control valve adjusts the water flow in to the tank.. Each panel has ABS molded plastic sturdy enclosure with 4mm shrouded connectors showing circuit diagram & its connection tag numbers for easy understanding and connections.

Specifications

- Trainer having control panel should provided in 40X40mm Aluminum profile rack with sturdy table top flat panel.
- Should have ABS plastic panel mounted on the aluminum rack with mimic diagram
- All input & output are terminated in 4mm shrouded connector, Should provide 4mm banana cable for experiments.
- Type of control PID
  - Control unit Digital indicating controller
  -Input Type 4-20mA
- Level transmitter Type Electronic, two wire, Range 0–500 mm, Output 4–20mA,
- I/P converter Input 4-20mA, Output 3-15 psig
- Control valve Type Pneumatic, Size 1/2", Input 3–15 psig, Air to close, Char. Linear,
- Rota-meter 10-200 LPH
- Pump Fractional horse power, type submersible with Sump Tank
- Process tank Transparent, Acrylic, with 0-300mm graduated scale
- Air filter regulator Range 0-2.5 kg/cm2
- Pressure gauge Range 0-2.5 kg/cm2(1No), Range 0-7 kg/cm2(1No)
- 230 +/- 10 VAC, 50 Hz, 1 phase with On/Off Switch.

  Optional: Mini compressor

Range of Experiments

- Study of open loop (Manual control)
- Study of on/off controller
- Study of proportional controller
- Study of prop. integral controller
- Study of prop. derivative controller
- Study of PID controller

Note : Specifications can be altered without notice in our constant efforts for improvement.

Kitek Technologies Pvt. Ltd., B-4, Lotus C.H.S., Plot No. 8, Sector - 7, Airoli, Navi Mumbai - 400708.
Tel.: 65116548, 27694323, **Email:** sales@kitektechnologies.ocm, **Web** : www.kitektechnologies.com