



IPT-200

Instrumentation and Process Control Trainer

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The Instrumentation and Process Control Trainer allows students performing hands-on experiments in Pressure, Flow and Level applications. The system's unique design allows rapid conversion between Pressure, Flow and Level experiments by adjusting the position of valves. All devices are pre-wired to terminal strips allowing for quick circuit modification. Activities in loop wiring, transmitter setup and loop tuning of PID parameters provide a thorough understanding of Process Control. The system is delivered in a mobile frame version and allows to include several add-ons.

TOPICS COVERED

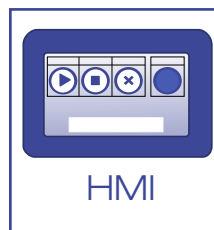
- Trainer Familiarization
 - » System P&ID
 - » System Connections
 - » Operator Control Panel
 - » Single Loop PID Controller
 - » Trend Viewer
- Introduction to Process Control
- Open Loop Control
- Closed Loop Control
- Level Measurement and Level Control
- Pressure Measurement and Pressure Control
- Flow Measurement and Flow Control
- Temperature Measurement and Temperature Control (Option)

DIFFERENT CONTROLLER OPTIONS



INDUSTRIAL CONTROLLERS

DIFFERENT HMI



HMI



IPT200 - 04 - 03 - 0 0 1 - A

1

2

5

6

Select at least one

1 Controller options

- 01 AB Micro800
- 04 Siemens S7-1200
- 07 Omron CP1
- 08 Mitsubishi FX-3
- 10 Schneider M340 System
- 00 No PLC

Select one

2 HMI Options

- 01 AB 7" Micro PanelView
- 03 Siemens KTP-700 7"
- 04 Omron NB 7"
- 05 Mitsubishi GS 7"
- 07 Schneider HMIST6400 7"
- 00 No HMI¹

¹ If a PLC is purchased, it is recommended to purchase an HMI

Select one

5 Fault Insertion

- 1 Fault Insertion
- 0 Not fault insertion

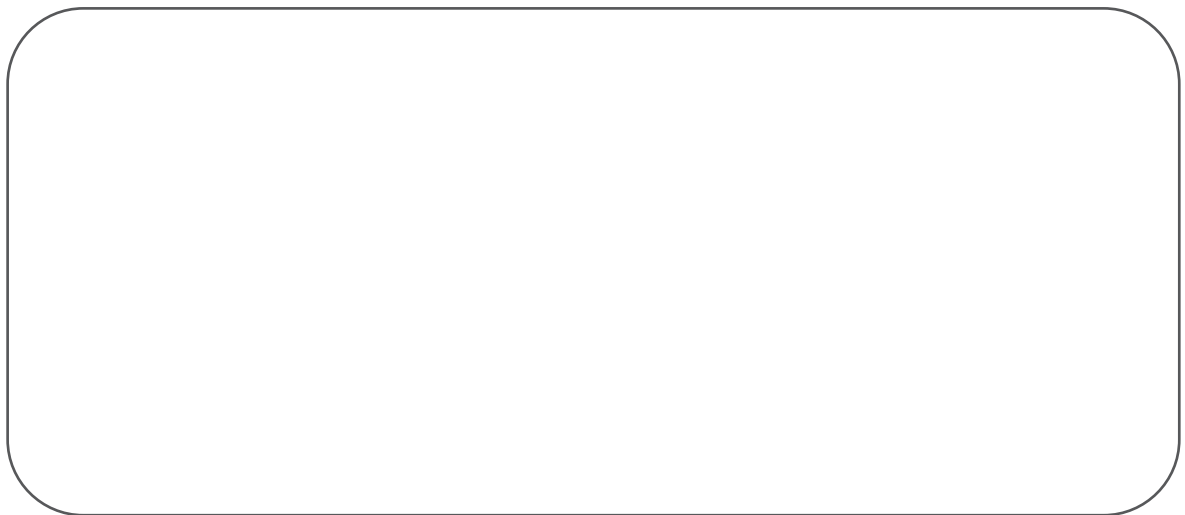
Select all required

6 Add-Ons

- A Sensors (On/Off Control)
- B Smart (HART) DP Transmitter
- C Paddle Wheel Flow Transmitter
- D Venturi Tube Flow Element²
- E Orifice Plate Flow Element²
- F Pneumatic V-Notch Ball Valve
- G Pneumatic Diaphragm Valve
- H Temperature Add-on (Air)
- I Temperature Add-on (Water)
- J Temperature Transmitter (HART)
- 0 None

² Required DP Transmitter (B)

HOW TO ORDER



www.smctraining.com



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