

# IPT 200 INSTRUMENTATION & PROCESS CONTROL TRAINER

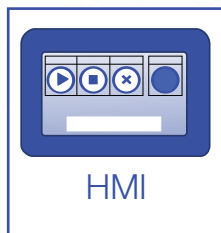
The Instrumentation & Process Control Trainer allows students performing hands-on experiments in Pressure, Flow & Level applications. The system's unique design allows rapid conversion between Pressure Flow & Level experiments by adjusting the position of valves. All devices are prewired to terminal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



**DIFFERENT CONTROLLER OPTIONS**



**DIFFERENT HMI**



**TREND VIEWER AVAILABLE**



## IPT-200

Instrumentation & Process Control Trainer

EN

## HOW TO ORDER

IPT200 - 04 - 03 - 0 0 1 - A

1   
 2   
 3   
 4   
 5   
 6

Select at least one

### 1 **Controller options**

- 01** AB Micro800
- 02** AB MicroLogix 1100
- 03** AB CompactLogix<sup>1</sup>
- 04** Siemens S7-1200
- 05** Siemens S7-1500
- 06** Siemens S7-300<sup>1</sup>
- 07** Omron CP1
- 08** Mitsubishi FX-3
- 09** Automation Direct Do-More
- 00** No PLC

<sup>1</sup> Software not included

Select one

### 2 **HMI Options**

- 01** AB 7" Micro PanelView
- 02** AB PanelView Plus 7"<sup>1</sup>
- 03** Siemens KTP-700 7"
- 04** Omron NB 7"
- 05** Mitsubishi GS 7"
- 06** Automation Direct C-More
- 00** No HMI

<sup>1</sup> Software not included

Select all required

### 3 **Software options**

- A** PLC Software for AB Option  
(To be included for controller option 03)
- B** PLC Software for Siemens Option  
(To be included for controller option 06)
- C** HMI Software for AB Option  
(To be included for HMI option 02)
- 0** No software

Select one

### 4 **Trend viewer**

- 1** Trend viewer/recorded option
- 0** Not trend viewer

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 Element<sup>2</sup>
- E** Orifice Plate Flow Element<sup>2</sup>
- 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

<sup>2</sup> Required DP Transmitter (B)

## 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)

\* The content of this document may change without prior notification

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