

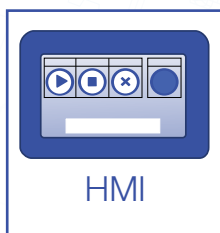
# IPT 200 INSTRUMENTATION & PROCESS CONTROL TRAINER

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



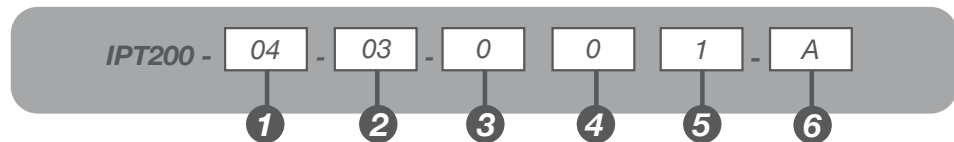
## IPT-200

Instrumentation & Process Control Trainer

EN

NF487B

## HOW TO ORDER



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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