

IPT-200

Instrumentation and Process Control Trainer

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EN IPT-200 Instrumentation and Process Control Trainer

The Instrumentation and Process Control Trainer allows students performing hands-on experiments in Pressure, Flow and Level applications. The systems 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

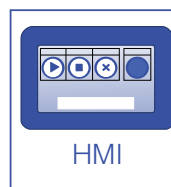
- Trainer Familiarization
 - » System P&ID
 - » System Connections
 - » Operator Control Panel
 - » Single Loop PID Controller
 - » Trend Viewer
- Introduction to Process Control
- Open Loop Control
- Closed Loop Control
- Level Measurement and Level Control
- Pressure Measurement and Pressure Control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

IPT-200 INSTRUMENTATION

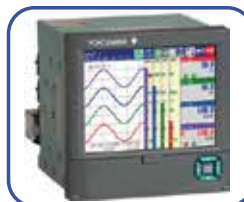
DIFFERENT CONTROLLER OPTIONS



DIFFERENT HMI



TREND VIEWER AVAILABLE



* The content of this document may change without prior notification

Select at least one

1 Controller options

- 01 AB Micro800
- 02 AB MicroLogix 1100
- 03 AB CompactLogix¹
- 04 Siemens S7-1200
- 05 Siemens S7-1500
- 06 Siemens S7-300¹
- 07 Omron CP1
- 08 Mitsubishi FX-3
- 09 Automation Direct Do-More
- 00 No PLC

¹ Software not included

Select one

2 HMI Options

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

¹ 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

IPT200 - 04 - 03 - 0 0 1 - A

1 2 3 4 5 6

NTATION AND PROCESS CONTROL TRAINER



HOW TO ORDER

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)²
- ☐ B Smart (HART) DP Transmitter²
- ☐ C Paddle Wheel Flow Transmitter
- ☐ D Venturi Tube Flow Element
- ☐ E Orifice Plate Flow Element
- ☐ 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)

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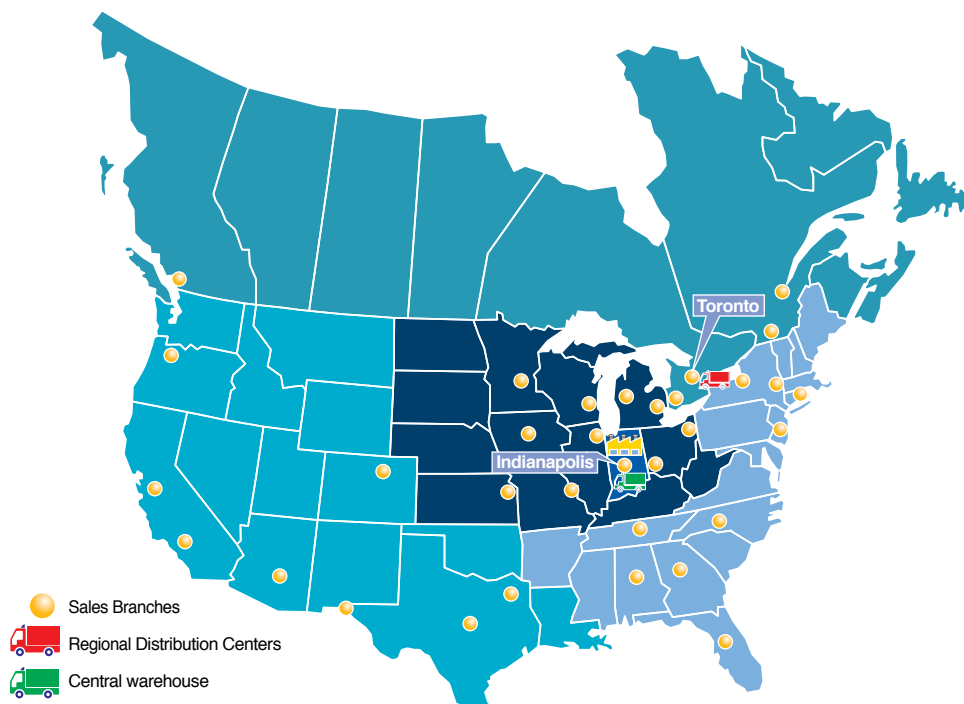
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