



IPT-200

Instrumentation and Process Control Trainer

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 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

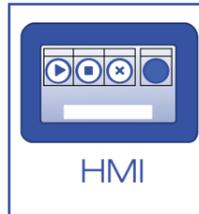
- Trainer Familiarization
 - » System P&ID
 - » System Connections
 - » Operator Control Panel
 - » Single Loop PID Controller
 - » Trend Viewer
- Introduction to Process Control
- Open Loop Control
- Closed Loop Control
- Level Measurement and Level Control
- Pressure Measurement and Pressure Control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

IPT-200 INSTRUMENTATION AND PROCESS CONTROL TRAINER

DIFFERENT CONTROLLER OPTIONS



DIFFERENT HMI



* The content of this document may change without prior notification

■ IPT-200 system

IPT[®] 200[®]-A¹ A²-03³ 01⁴ A0⁵

1 Socket/Voltage

- | | |
|----------|----------|
| A | E |
| B | F |
| C | G |
| D | H |

2 Documentation language

- A** Spanish
- B** English
- C** French

3 PLC*

- 00** Without PLC
- 01** Siemens S7-1200
- 03** Allen Bradley Micro 800
- 05** Omron - CP1L
- 07** Mitsubishi - FX3
- 09** Schneider M200

* The brand of PLC and HMI must be the same. If the system is purchased with PLC, it is recommended to purchase an HMI.

4 HMI*

- 00** Without HMI
- 01** Allen Bradley 7" Micro Panel view
- 03** Siemens KTP-700 7"
- 04** Omron NB 7"
- 05** Mitsubishi GS 7"
- 06** Schneider HMIST 6400 7"

5 Fault insertion

- Z0** None
- A0** Fault insertion

HOW TO ORDER

■ Optional Add-Ons for IPT-200

IPT[®] 20[®]A¹ - 0[®]A²

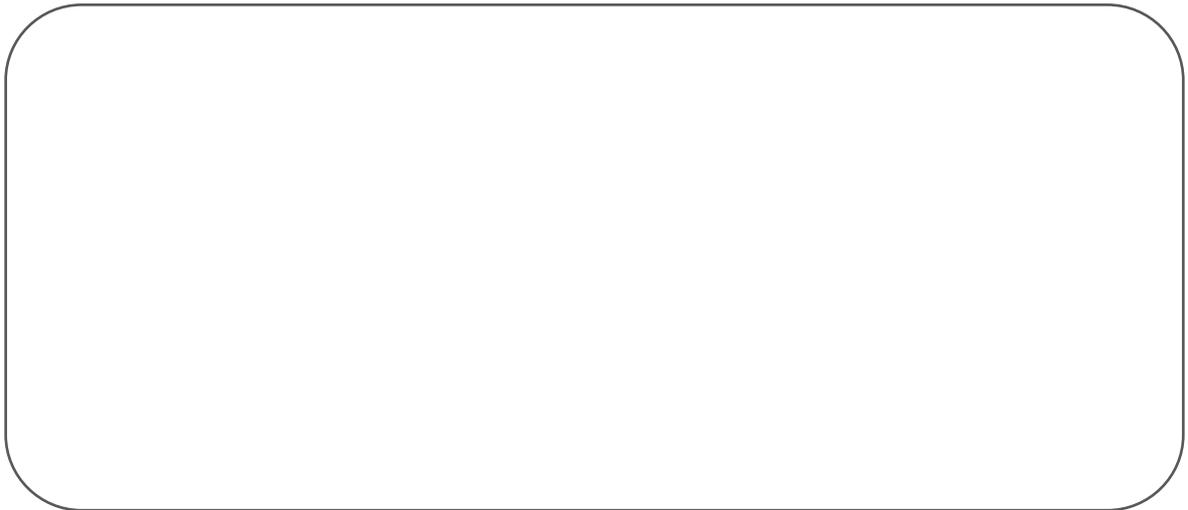
1 Add-Ons

- A** Sensors (ON/Off Control)
- B** Smart (HART) DP Transmitter
- C** Paddle Wheel Flow Transmitter
- D** Venturi Tube Flow Element¹
- 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)

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¹ Required DP Transmitter (B)



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