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PRODUCT DATA SHEET
Catalogue reference for product evaluation

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True DCS Trainer | Prozessi PX 28

Category: Process Engineering Technology · **Order Code:** PX 28 · **Country of Origin:** India

Product Overview

The True DCS Trainer Prozessi PX 28 teaches Honeywell DCS controller operation, SCADA software and industrial network communication. Features 16 analog inputs/outputs, 32 digital inputs/outputs and 8 control loops. Banana socket panel for manual signal injection and flexible test lead routing. Modbus TCP/IP Ethernet communication. Eight experiments cover controller study, SCADA development, batch and continuous process control. Includes Honeywell SCADA software and sample programs. Standalone industrial panel, 600W x 400D x 1200H mm.

View this product online: https://scienticoindia.com/product/true-dcs-trainer-prozessi-px-28/



Request a model-specific quotation
Include quantity and delivery country.

Technical Specifications

True DCS Trainer Prozessi PX 28 — Technical Specifications

Specification	Value
Product Code	Prozessi PX 28
Control Hardware	Honeywell S8, C300
Analog Inputs	16 channels
Analog Outputs	16 channels
Digital Inputs	32 channels
Digital Outputs	32 channels
Control Loops	8
Communication	Modbus TCP/IP (Ethernet)
Software	Honeywell SCADA Software
Configuration	Function-block, Drag-and-drop
Panel I/O	Banana sockets (analog), Switches (digital in), Indicators (digital out)
Test Leads	10 with 4mm banana pins
Overall Dimensions	600W x 400D x 1200H mm

Technical Data

Controller I/O Capacity

Component	Specification
Analog Inputs	16 channels, 4-20 mA standard
Analog Outputs	16 channels, 4-20 mA standard
Digital Inputs	32 channels, 24VDC logic
Digital Outputs	32 channels, relay or solid-state
Control Loops	8 independent PID loops

Communication and Networking

Interface	Protocol
Ethernet	Modbus TCP/IP
Serial	RS485 (external device integration)
OPC Server	For SCADA clients

Control Panel Features

Component	Type
Analog Input Connections	Banana sockets, 4mm
Analog Output Connections	Banana sockets, 4mm
Digital Input Control	Toggle switches
Digital Output Indication	LED indicators
Test Leads	10 units, 4mm banana pins both ends

Key Features

Key Features

- True DCS Trainer: Honeywell industrial controller with 8 control loops
- 16 analog and 16 analog outputs, 32 digital inputs and 32 digital outputs
- Modbus TCP/IP for industrial network communication
- Honeywell SCADA software with function-block programming
- Banana socket interface for easy manual signal injection
- Test leads for flexible analog signal routing
- Online configuration changes without shutdown
- Ready-to-use programs for Apex trainers and external controllers
- Standalone industrial control panel design

Experiments

- Study of Honeywell controller architecture and operation
- SCADA (HMI) software development and runtime
- Ethernet network communication with Honeywell controller
- OPC server communication to SCADA clients
- Modbus TCP/IP protocol implementation
- Batch process control using control panel I/O
- Continuous regulatory process control
- Direct control of connected external processes

Construction and Design

The True DCS Trainer Prozessi PX 28 is built in an industrial control panel (600W x 400D x 1200H mm) housing the Honeywell S8 C300 DCS controller. Front panel banana sockets provide direct access to all 16 analog inputs and outputs for manual signal injection. Toggle switches control 32 digital inputs. LED indicators display the status of 32 digital outputs. Ten test leads with 4mm banana pins enable flexible signal routing between the panel and external circuits or processes. The Honeywell SCADA software runs on a connected computer, providing real-time monitoring, control and alarm management.

Software

Honeywell SCADA software includes function-block configuration, drag-and-drop interface, online changes, worksheet-based partitioning and extensive monitoring tools. Sample programs demonstrate integration with Apex trainers and external controllers via Modbus TCP/IP and RS485.

Scope of Delivery

- True DCS Trainer Prozessi PX 28 industrial control panel
- Honeywell S8 C300 controller with 8 control loops
- 16 analog input/output modules (16 AI, 16 AO)
- 32 digital input/output modules (32 DI, 32 DO)
- Banana socket connectors on front panel
- Toggle switches for digital input simulation
- LED indicators for digital output monitoring
- 10 test leads with 4mm banana pins
- Ethernet communication module
- Honeywell SCADA software license
- Hybrid Control Designer software
- Sample programs for Apex trainer integration
- Power cord and interconnecting cables
- User documentation and training materials

Optional Accessories

- Support table, 800W x 800D x 750H mm
- Extended Ethernet cables
- Additional test leads
- Advanced SCADA modules
- Redundancy controller

Ordering & Delivery

- Send the product name, quantity, delivery country and destination with your enquiry.
- Production schedule, freight, payment terms and export documents are confirmed in the written quotation.

Frequently Asked Questions

Q1: How does the True DCS Trainer differ from a traditional PLC?
A: The True DCS Trainer combines PLC discrete logic capability with DCS regulatory control features, offering 8 simultaneous PID loops plus 64 configurable I/O for integrated manufacturing and process control.

Q2: Can the True DCS Trainer control real processes?
A: Yes, the control panel's banana sockets and test leads allow connection to external transmitters, sensors and actuators for direct control of real laboratory processes.

Q3: What communication protocols are supported?
A: The True DCS Trainer supports Modbus TCP/IP over Ethernet and RS485 for connecting external controllers like Yokogawa UT321-01 or other SCADA systems.

Q4: Can programs be modified while running?
A: Yes, the Honeywell SCADA software allows online configuration changes and program updates without stopping the controller.

Q5: What software is provided?
A: The package includes Honeywell SCADA software with function-block programming, sample programs for Apex trainers and ready-

to-use batch and continuous control templates.

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