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PRODUCT DATA SHEET
Catalogue reference for product evaluation

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Study of I/P and P/I Converter | Prozessi PX 13

Category: Process Engineering Technology · **Order Code:** PX 13 · **Country of Origin:** India

Product Overview

The Study of I/P and P/I Converter, Prozessi PX 13, is a tabletop trainer for electronic and pneumatic signal conversion studies. It includes an I/P converter, P/I converter, digital calibrator, pressure gauges, air regulator, and air filter regulator. The setup supports the Study of I/P and P/I Converter for working, calibration, linearity, hysteresis, accuracy, and repeatability. All components are mounted on a compact support housing for tabletop use.

View this product online: https://scienticoindia.com/product/study-of-i-p-and-p-i-converter-nexumation-57/



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

Technical Specifications

Study of I/P and P/I Converter, Prozessi PX 13 - Technical Specifications

Parameter	Specification
Product	Study of I/P and P/I converter
Product code	Prozessi PX 13
Pressure Transmitter	Two wire type, range 0 to 1 bar, output 4 to 20 mA
I/P Converter	Input 4 to 20 mA, output 3 to 15 psig
Signal Isolator	Input 4 to 20 mA, output 4 to 20 mA
Digital Calibrator	Sink/Source, mA/mV mode
Air Regulator	Range 0 to 2.5 kg/cm2
Air Filter Regulator	Range 0 to 2.5 kg/cm2
Pressure Gauge	Range 0 to 2.5 kg/cm2 (2 Nos), Range 0 to 7 kg/cm2 (1 No)
Overall Dimensions	550W x 300D x 400H mm
Optional	Mini compressor

Technical Data

Pressure Transmitter

Parameter	Value
Type	Two wire
Range	0 to 1 bar
Output	4 to 20 mA

I/P Converter

Parameter	Value
Input	4 to 20 mA
Output	3 to 15 psig

Signal Isolator

Parameter	Value
Input	4 to 20 mA
Output	4 to 20 mA

Digital Calibrator

Parameter	Value
Mode	Sink/Source, mA/mV

Air Regulator

Parameter	Value
Range	0 to 2.5 kg/cm2

Air Filter Regulator

Parameter	Value
Range	0 to 2.5 kg/cm2

Pressure Gauge

Parameter	Value
Range 1	0 to 2.5 kg/cm2, 2 Nos
Range 2	0 to 7 kg/cm2, 1 No

Key Features

Key Features

- Mounting: Table mounted setup
- Operation: Compact and simple to operate
- Calibration: Digital calibrator, sink/source, mA/mV mode
- Configuration: Combined setup for Study of I/P and P/I Converter
- Signal Path: I/P converter input 4 to 20 mA, output 3 to 15 psig

Experiments

- Study of flapper nozzle system
- Study of working principle and calibration procedure of I/P converter
- Study of working principle and calibration procedure of P/I converter
- Study of linearity, hysteresis, accuracy and repeatability of I/P converter

- Study of linearity, hysteresis, accuracy and repeatability of P/I converter

Construction and Design

The Study of I/P and P/I Converter, Prozessi PX 13, is built around a support housing designed for tabletop mounting. The I/P converter, P/I converter, digital calibrator, pressure gauges, air regulator, and air filter regulator are all mounted on this housing. All components are connected through the required piping and fittings. The compact layout supports the Study of I/P and P/I Converter for both converter types in one unit.

Scope of Delivery

- I/P converter
- P/I converter
- Digital calibrator
- Pressure gauges (2 Nos range 0 to 2.5 kg/cm2, 1 No range 0 to 7 kg/cm2)
- Air regulator
- Air filter regulator
- Support housing with piping and fittings

Optional Accessories

- Mini compressor

Required for Operation

- Electric supply: 230 +/- 10 VAC, 50 Hz, 1 phase
- Air supply: Clean, oil and moisture free air, pressure 2 bar, consumption 50 LPH

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: What is the purpose of the Study of I/P and P/I Converter setup?
A: It is designed for understanding the basic principles of electronic and pneumatic signal conversion, using an I/P converter and a P/I converter.

Q2: What output does the I/P converter give in this setup?
A: The I/P converter gives an output of 3 to 15 psig for an input of 4 to 20 mA.

Q3: What output does the P/I converter give?
A: The P/I converter gives an output of 4 to 20 mA DC.

Q4: What role does the digital calibrator play?
A: It acts as a current source, supplying 4 to 20 mA DC to the I/P converter, and as a current sink, receiving the output current from the P/I converter.

Q5: What parameters can be studied using this setup?
A: Linearity, hysteresis, accuracy, and repeatability of both the I/P and P/I converters, along with the flapper nozzle system.

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