



SALIENT FEATURES

- ◆ Full Range of mV, Th/C, RTD, Current, Voltage, Slide wire Transmitters and Alarm
- ◆ Upto four isolated outputs
- ◆ Three Port Isolation provided (between inp each output and power supply)
- ◆ Front panel access for span, zero and set-point adjustments
- ◆ Single or dual set-point for alarm trip modu
- ◆ Display provided (optional)
- ◆ DIN rail, back of panel mounting

The Series 4400- Converters / Isolators, Function Modules, Trip Amplifiers are economical instruments designed to provide signal conditioning with input output versatility. These instruments accept all common process variables as input and provide upto four standard analog outputs or two alarm output signals. The Series 4400-DR instruments are suitable for DCS, SCADA, PLC applications.

Modules available :

- Signal Distributors / Isolators one input and one, two, three or four outputs
- Square Root extractors
- RTD / Resistance / mV / Th/C to current converters
- AC Current / AC Voltage Transducers
- Frequency to current converters
- RS232 to RS485 Bi-directional Converter (2 wire & 4 wire)

TECHNICAL SPECIFICATIONS

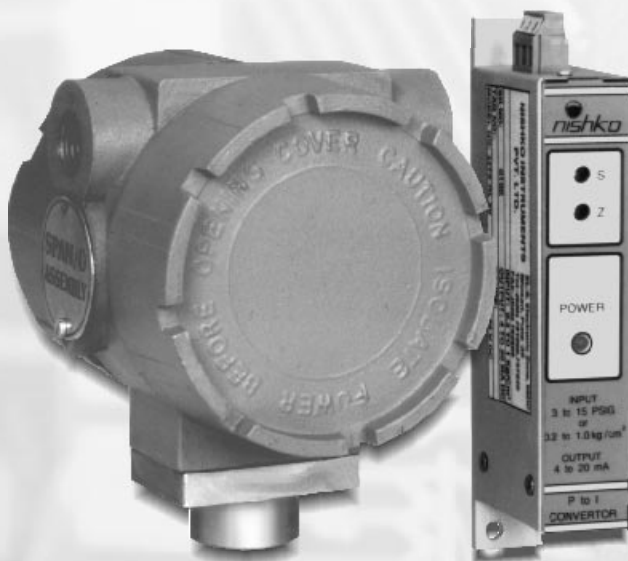
Input	: 1) 4 to 20 mA DC, 0 to 20 mA DC (Input Impedance < 62.5 ohm) 2) 1 to 5 V DC, 0 to 5 V DC (Input Impedance > 2K ohm) 3) RTD, PT-100, 3 wire 4) Thermocouples (J,K,R,S,T,E,N,B) (Input Impedance > 1M ohm) 5) Others on request
Output	: 1) 4 to 20 mA DC (max load 600 ohm) 2) 0/1 to 5 V DC 3) 0/2 to 10 V DC
No. Of outputs	: Upto 4 nos provided
Alarm Contacts	: 2 NO + 2 NC potential-free contacts rated at 230V AC, 5A resistive
Isolation	: >100M ohm at 500V DC
Transmitter Supply	: 24 V DC, 30 mA for powering two-wire transmitter
Accuracy	: < +/- 0.2% of FSD
Supply	: 230 V AC, 50 Hz (others on request)
Mounting	: DIN Rail / Back of panel
Dimensions	: 1) 56mm(W) X 120mm(D) X 132.5mm(H) 2) 20mm(W) X 140mm(D) X 132.5mm(H) 3) 60mm(W) X 110mm(D) X 70mm(H)
Operating Temperature	: 0 to 50 deg C
Temperature Coefficient	: 0.015% / deg C



RS232 TO RS485 CONVERTORS MODEL : NRS-01

- ◆ Communication : bi-directional
- ◆ Rs232 port : 25 pin D-type connector for PC
- ◆ RS485 port : 2.5 sq.mm screwed terminals
- ◆ Configuration : 2 wire / 4 wire
- ◆ Indication : Rx, Tx, power-on
- ◆ Supply : 230/110V AC, 50 Hz (others on request)
- ◆ Mounting : Din-rail/ Back of Panel

P TO I CONVERTORS MODEL : 4450-TX



SALIENT FEATURES

- ◆ Handy, light & wall mounting unit.
- ◆ Easy field calibration.
- ◆ 2 wire system.
- ◆ Direct Pressure input
- ◆ Back of panel / rail mounting unit or In flame proof field mounting type housing

The P to I Converter accepts air pressure as input and gives 4-20mA output in 2-wire loop. The minimum supply required is 12V and maximum can be 36V DC. SPAN & ZERO adjustments are accessible from front thus giving very much ease in calibration at site. Provision of extra terminal to monitor current without breaking loop.

TECHNICAL SPECIFICATIONS

INPUT	: 3 to 15 PSI / 0.2 to 1.0 kg/sq. cm.
OUTPUT	: 4-20 mA, 2 wire.
SPAN & ZERO	: Adjustable from front panel.
SUPPLY	: 12-36 V DC. Reverse polarity protection is provided
OUT PUT LOAD	: 600 ohms @ 24 V DC Max. Load = $\frac{\text{supply Volt}-12V}{20 \text{ mA}}$
PROCESS CONN.	: 1/4" BSP (F)
ACCURACY	: < +/- 0.25% of full scale.
REPEATABILITY	: Better than +/- 0.15 %
OPERATING TEMP	: 0 to 50 °C
EFFECT OF SUPPLY VARIATION	: 0.002 %per volt within specified supply limits.
RIPPLE ALLOWED ON P.S.	: 0.2 V Peak to Peak 100 Hz
TEMP. COEFF.	: +/- 0.02%per °C
HUMIDITY	: 90% RH, non condensing

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