

# Nippon's UNIVERSAL PROCESS SCANNERS



- ✓ More than 750 successful installations.
- ✓ E.R.T.L. approved.

- ✓ Widely accepted in Petrochemicals, Chemicals, Pharmaceuticals, Food Industries, Furnaces, Winding Temp, Power Plants, HVAC, Defence...

CHANNELS	INPUT TYPE	SENSOR	RANGE	ACCURACY
4, 6, 8, 10, 12, 16	R.T.D.	PT-100	-200 to 600°C	± 0.1°C
	THERMOCOUPLES	Iron - Constantan (J)	-100 to 600°C	± 0.1°C
		Chromel/Alumel (K)	-99.9 to 999.9°C	± 0.1°C
			1000 to 1200°C	± 1°C
		Copper-Constantan (T)	-99.9 to 299.0°C	± 0.1°C
		Pt / Rh (R or S)	0 to 1750°C	± 1°C
	LINEAR INPUTS	B, E, N	Please Specify	± Least count
		4 to 20 mA	User Configurable	± Least count
		0 to 20 mA	User Configurable	± Least count
		0 to 1 V	User Configurable	± Least count
OTHERS	Others	Please Specify	± Least count	
	OTHERS	PT-46, PT-1000, Cu-10	Please Specify	± Least count

## SPECIFICATIONS

- LINEARISATION** : Software Linearised backed by instrumentation OPAMPS.
- PARAMETER SETTING** : By Soft-touch, Elegant, Sturdy & User friendly membrane keys.
- SCAN TIME** : Programmable 1-99 Seconds, with HOLD facility.
- DISPLAY** :
  - Bright Seven Segment Displays & L.E.D.'s.
  - (4 - digits for process & 4 - digits for Channel number / Input)
  - 16 Characters x 2 Lines Alphanumeric LCD.
  - 128 x 64 Pixels Graphical LCD.
- SENSOR OPEN** : Indicates OPEN.
- SKIP** : Channel SKIP facility available.
- FINE-CALIBRATION** : From front keys in AUTO CALIBRATION mode.
- ALARMS** : Common or Individual HIGH / LOW limits max. 2 relays. For extra relays or groups contact factory.
- COMMUNICATION** : RS232, RS485, **MODBUS** Available. (Baud Rate Programmable)
- ON\_LINE INTERFACE** :
  - Computer (Communication Address Programmable).
  - 80 - Column Printer.
  - Nippon make SERIAL/PARALLEL Industrial Printer (Printing Interval Programmable with On-Demand Print)

- OFF\_LINE INTERFACE** : • 80 – Column Printer.  
 • Nippon make SERIAL/PARALLEL Industrial Printer  
 • Computer through HANDHELD MEMORY BANKS.  
 (36000 Records Capacity (Expandable), Communication Address & Printing Interval Programmable
- MEMORY DESIGN** : In-Built Memory is available in Selected Models  
 : Modular, Sturdy & Wireless design.
- NOISE IMMUNITY** : EMI / RFI interference is suppressed by MOV's & R-L-C filters.
- SUPPLY VOLTAGE** : 90-260 VAC, 50 Hz, SMPS Design
- AMBIENT CONDITIONS** : Temperature 55 °C & Relative Humidity 99%.
- BOX** : Three designs : • 96 H x 96 W • 96 H x 192 W, DIN size, ABS Moulded Plastic Case.  
 • Wall / Rail Mounting Scanners

## Nippon UNIVERSAL SCANNER IN FLAMEPROOF HOUSING



- Universal Input
- 8 / 16 Channels
- L.E.D. display
- RS232 / RS485 / MODBUS
- C.M.R.S. approved
- IP55 as per IS 2147 / 1962
- LM6 body

## Nippon MEMORY BANKS

Memory Banks has a non volatile RAM capable of data retention for 10 years. The scanner is located in the field. The MEMORY BANK is connected to scanner, which sends the data to memory bank at every programmed interval. The memory bank keeps storing the data till its capacity is reached or till the user stops the data collection. Now the memory bank is disconnected from the scanner & connected to PC, where *Nippolog* off-line version collects all the data from memory bank & stores in the *Nippolog* format. Once the data is collected by the *Nippolog*, the memory is erased & can be reused again. The instrument has unlimited write cycles. This arrangement is very useful for remote data monitoring or where PC can not be dedicated for *Nippolog* application.



HandyNippo



MiniNippo

*HandyNippos are widely used in Logistics, Dispatch Automation, Distribution Solutions & Inventory Management.*

### SPECIFICATIONS

- MEMORY** : 36000 Readings
- DATA COMMUNICATION** : Interface : RS232, Baud Rate : 2400 bps, Data Bits : 8 bits, Parity Bit : None, Stop Bits : 1 bit.
- COMMUNICATION PORT** : 9 Pin D-type Male Connector for Connection to SCANNER and PC.
- DISPLAY** : MiniNippo : LCD, 16 Characters • 2 Lines  
 HandyNippo : 64x128 Characters, Graphic LCD
- POWER SUPPLY** : Rechargeable Battery, 90 - 260 VAC, 50Hz.
- POWER CONSUMPTION** : Less than 3VA
- AMBIENT CONDITIONS** : Temp 55°C & Relative Humidity 99%
- BOX** : Handy - 186 mm(H) x 105 mm(W)
- WEIGHT** : 150 gms, easy to carry with Soft Leather Carry Case