



Nippon Technologies



UNIVERSAL PROCESS SCANNERS



Nippon's UNIVERSAL PROCESS SCANNERS

- ✓ More than 2500 successful installations
- ✓ Temperature, Pressure, Humidity, Level, PH, Rate, Flow, Linear Signal and Digital Inputs etc...
- ✓ E.R.T.L. approved

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



Specifications

| 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 |
| | | B, E, N | Please Specify | ± Least count |
| | LINEAR INPUTS | 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 | Please Specify | ± Least count |
| | OTHERS | Pt-46, PT-1000, Cu-10 | Please Specify | ± Least count |

| | |
|---------------------|---|
| Linearisation | Software Linearised backed by instrumentation OPAMPS. |
| Parameter Setting | By Soft-touch, Elegant, Sturdy and User friendly membrane keys. |
| Scan Time | Programmable 1-99 Seconds, with HOLD facility. |
| Display | <ul style="list-style-type: none"> Bright Seven Segment Displays and 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. |
| Relays and Grouping | Total 4 Groups, 2 Relays for Each group. One channel can be assigned to any group only once. |
| Alarms | High / Low for Each Channel. |
| Annunciation | 16 / 32 Ultra bright LEDS |
| Communication | RS232, RS485, (2Wire/4Wire), Wireless, Ethernet (TCP /IP), USB, GSM (SMS alerts) |
| Protocol | MODBUS RTU, Function 03, 04, 06, 16 Implemented. Installations with major SCADA software's. Proprietary protocol suitable for NIPPOLOG. |

| | | | |
|--------------------|--|--|---|
| On-line Interface | <ul style="list-style-type: none"> • Computer (Communication Address Programmable). • 80 – Column Printer. • Nippon make SERIAL/PARALLEL Industrial Printer (Printing Interval Programmable with On-Demand Print) | | |
| Off-line Interface | <ul style="list-style-type: none"> • 80 – Column Printer. • Nippon make SERIAL/PARALLEL Industrial Printer • Computer through HANDHELD MEMORY BANKS. (36000 Records Capacity (Expandable), Communication Address and Printing Interval Programmable | | |
| Memory | In-Built Memory 2 MB is available in selected models. Useful in off line Data logging and Printing. | | |
| DESIGN | Modular, Sturdy and Wireless design. | | |
| Noise Immunity | EMI / RFI interference is suppressed by MOV's and R-L-C filters. | | |
| Supply Voltage | 90-260VAC, 50Hz SMPS design. 24VDC on request. | | |
| Ambient Conditions | Temperature 55 °C and Relative Humidity 99%. | | |
| Boxes | Four Designs | 96H X 96W 96H X 192W 96W X 192H, DIN SIZE | ABS Moulded Plastic Case Wall / Rail Mounting Scanners |
| Note | Contact factory for 24 / 32 / 64 Channel Scanners. | | |

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

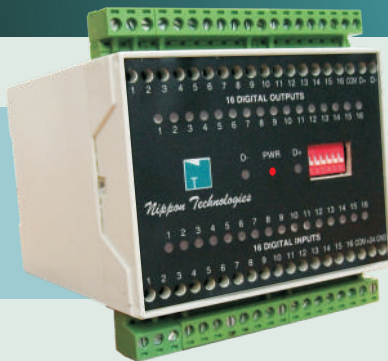


DIGITAL INPUT / OUTPUT MODULE

nippoDIDO16

SPECIFICATIONS

- 16 Digital Inputs and 16 Digital Outputs.
- MODBUS RTU fully compatible with (Functions 1, 6).
- MODBUS FUNCTION 1 is used for reading the status of inputs.
- MODBUS FUNCTION 6 is used to force the out put to either turn on or turn off.
- All inputs and outputs are optically isolated.
- 32 LED's for status indication of I / O.
- BAUD RATE & DEVICE ID programmable Vide DIP Switches.
- Can be used to expand Digital I / O's of PLC.
- DIN – RAIL mounting elegant box.
- QUICK CONNECT – DISCONNECT CONNECTORS.
- 24 VDC sturdy power supply.
- Cost Effective!!



ANALOG INPUT MODULE

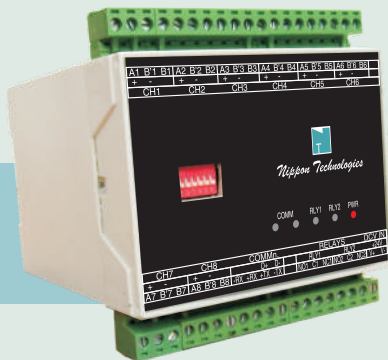
UNSC8B

NIPPON TECHNOLOGIES has come out with an Analog Input Module UNSC8B.

UNSC8B finds application in SCADA, PLC, and DAS etc.

SPECIFICATIONS

- Blind Scanner. • 8 Channels.
- MODBUS RTU fully compatible (Function 3, 4, 10, 16).
- J / K / R / S / T / E / PT -100 / 0-1V / 0-20mA / 4-20mA
- Remotely Configurable. • 2 Relays.
- Optional KBD / DISPLAY Attachment.
- Can be used with PLC as their Analog input expansion.
- DIN – RAIL mounting elegant box.
- QUICK CONNECT – DISCONNECT CONNECTORS.
- 24 VDC sturdy power supply.



HandyNippo



MiniNippo

MEMORY BANKS

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

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 and 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.

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 and Relative Humidity 99% |
| Box | Handy - 186 mm(H) x 105 mm(W) |
| Weight | 150 gms, easy to carry with Soft Leather Carry Case |



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