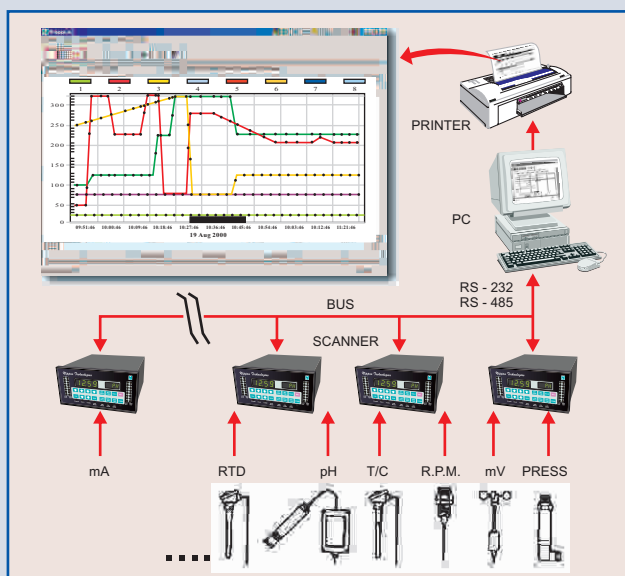




Nippon's DATA ACQUISITION SYSTEM

Nippolog™



Nippon Technologies was established in 1991 with the objective to design & manufacture INSTRUMENTATION products. In the journey of twenty years ago for products delivered have become 'benchmark' in the industry.

A milestone was reached in 1997 with the introduction of a state-of-the-art data acquisition system *Nippolog*. The customer acceptance was enormous.

Nippolog is constantly upgraded to meet the requirements of the industry. We have invested more than 25 man-years in upgradation of *Nippolog*.

Today *Nippolog* is flagship product of the company, it consists of SCANNERS, CONVERTORS, MEMORY BANKS & SOFTWARE.

If your measurement & data logging application involves a diverse array of sensors or events, located centrally or over large distance, then *Nippolog* is the answer.

Nippolog can become foundation of your measurement & data

acquisition. It increases PRODUCTIVITY through accurate measurement, data acquisition, data analysis & data visualization.

Nippolog - a robust architecture functions reliably even in electrically & environmentally harsh environment. The software periodically acquires data from scanners and presents it in various forms at the user's monitor.

Nippolog is interactive and very simple to use. Its features include Graphical Trends, Tabular Listing, Batch-wise data archival, Online Help, and many others. This becomes simplest tool for dozens of uses.

Nippolog finds application in Pharmaceuticals, Bulk Drug, Dyes and Chemicals, Petrochemical, Engineering, Power Plants, Glass, Textiles, Air-Conditioning/ Refrigeration, Test Laboratories and many other industries. There are over One hundred successful installations.

Technical Specification

Input	: Universal, RTD's, Thermocouples, 0-1 VDC, 4-20mA, Logic Inputs,...
No. of Channel	: Interfacing up to 256 parameters
Trends	: Graphical and Tabular display
Archival	: Automatic, Programmable, and Batchwise data Storage
Access Mode	: Normal User and Super User mode
Communication	: RS232 and RS485, USB on request
Protocol	: Proprietary ASCII, MODBUS on request

Minimum PC Requirement

- Windows 98/XP
- Pentium with 64MB RAM & 20 GB HDD
- Colour Monitor
- FDD / CD ROM Drive for s/w installation
- Colour Inkjet Printer for Printing the Graphs

Data Export

- EXCEL
- ACCESS
- Customised Report

User friendly !!! Powerful !! Rugged !

Long-term software capability & flexibility with emerging technologies

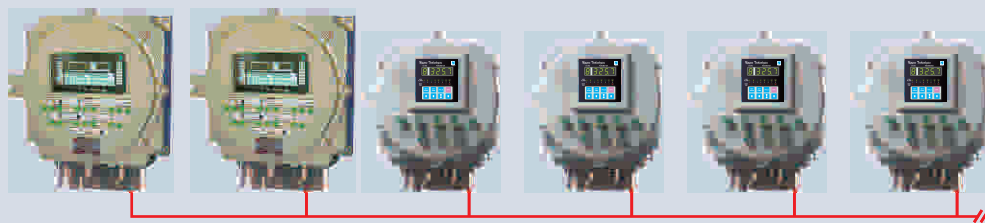
Lower cost of ownership

Real- Time intelligence

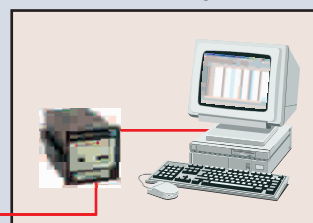
WIDE APPLICATION

HAZARDOUS AREA DATA LOGGING

Asia's largest bulk drugs plant for AMPICILIN



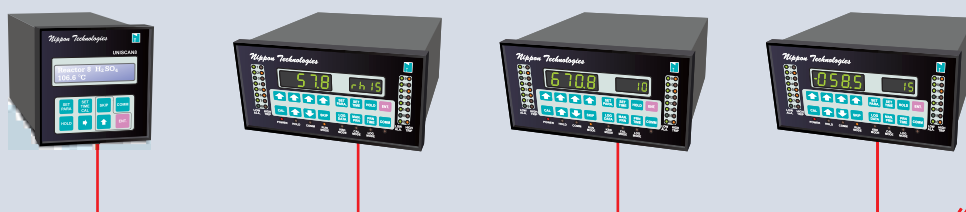
Instrument Manager Cabin



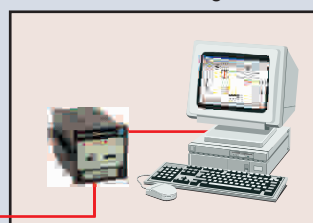
Total No. of Channels : 72 (48 Temp Points, 12 Pressure Points, 12 PH Points)
 Average Distance of Scanner to PC : 450 mtrs Date of Installations : Aug, 2000 / Sep, 2002 / July, 2004

PROCESS STUDY IN DYES MANUFACTURING

Largest Exporters of DYES/ CHEMICALS



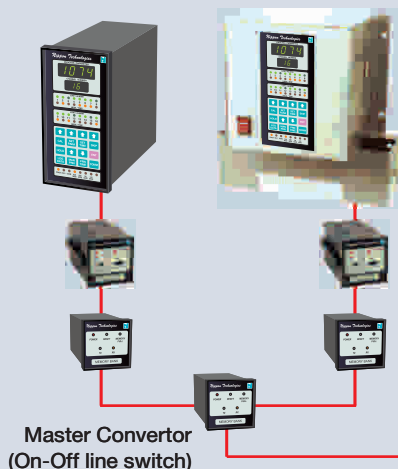
Process Monitoring Room



Total No. of Channels : 80 (64 Temp. Points, 16 Pressure Points)
 Average Distance of Scanner to PC : 350 Mtrs Date of Installations : October, 1999 / June, 2004

PHARMACEUTICAL PLANT

USFDA approved Plant

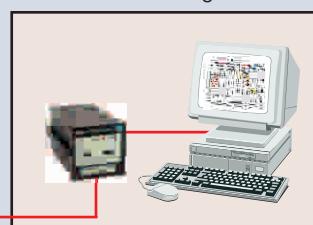


TEMP./ Humidity Monitoring

USFDA approved Plant, Monitoring Parameters from & stores of Bulk raw material, Approved material Sampling, finished goods & process plant.

No. of Channels : 32 (16 Temp. and 16 Humidity Points)
 Memory Bank : Remember 10,000 Readings when PC is off in the night
 Date of Installation : October, 2001

Production Manager Cabin



REMOTE / OFF LINE DATA LOGGING

Largest Hypatitis 'B' Vaccine Manufacturer



Quality Control Department

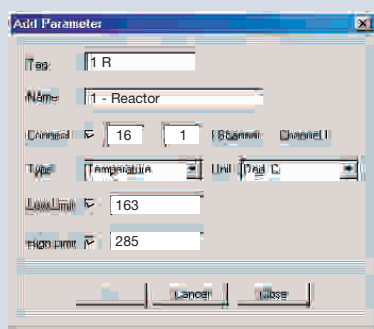


Scanners are very very far from PC, wiring is not possible. "Memory Bank" is taken Physically near to each Scanner & then data is captured. Memory Bank is then taken to PC & Data is downloaded through RS 232 port.

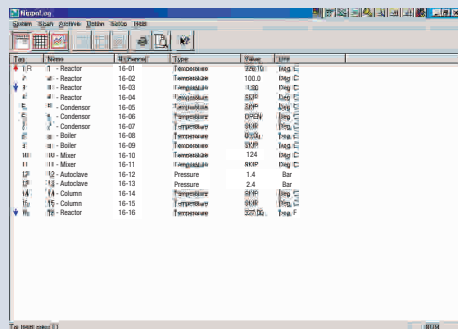
No. of channels : 32 (All Temp. points) Date of Installation : May, 2001 / November, 2002

NIPPOLOG VER. 1.4

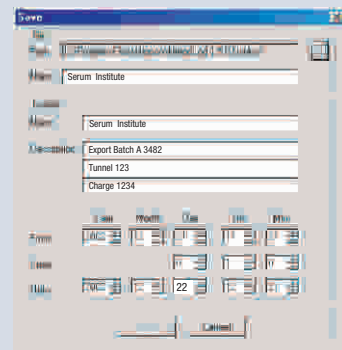
Nippolog ver. 1.4 is online datalogging software. The PC remains on throughout the phase of data acquisition. Ask for demo floppy or **free download** from 'www.nipponinstruments.com'



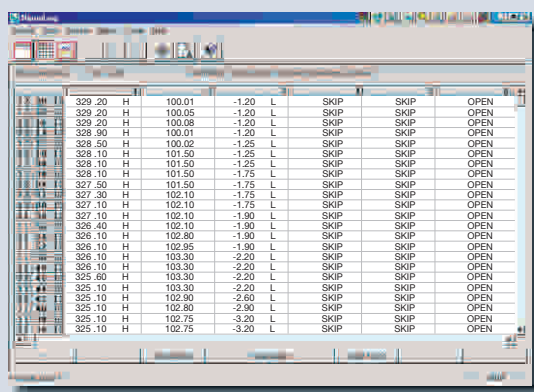
Opening Screen



Main Menu



Data Archival



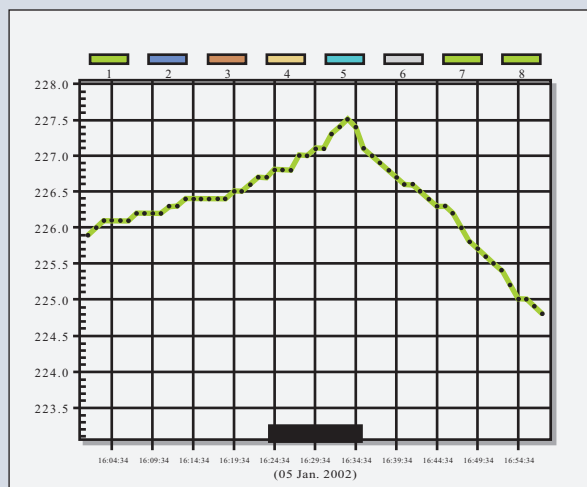
Tabular



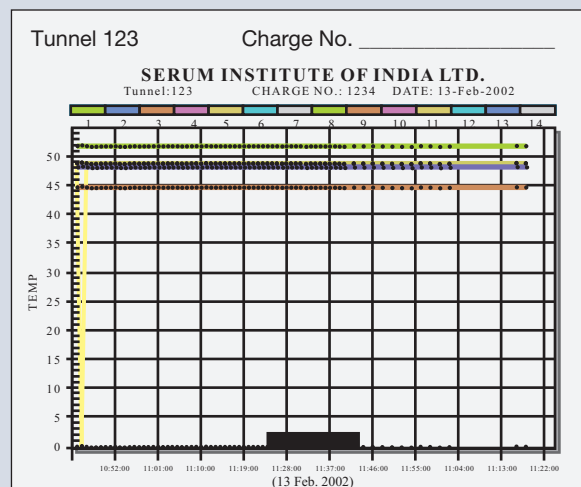
Graphical

NIPPOLOG VER. 1.6

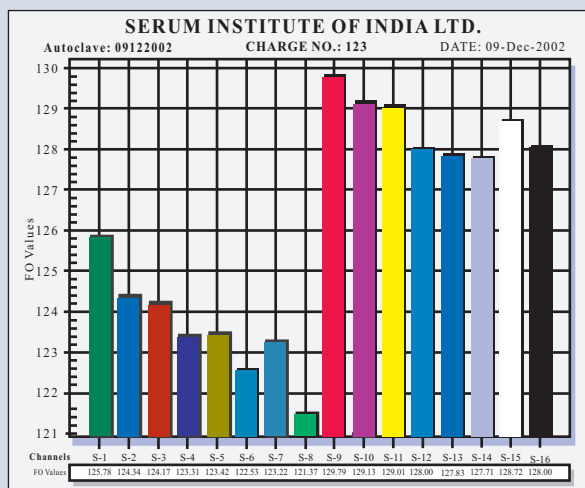
Nippolog ver. 1.6 is on/off line datalogging software. The off line part of Nippolog 1.6 is used when PC is off. Nippon 1.6 has memory and better functionality.



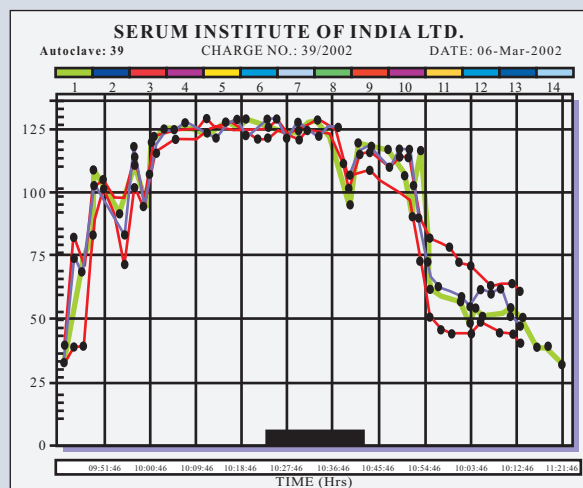
Only one channel trending



Graphical presentation with customised reporting



FO Value Presentation



Customised Presentation

CUSTOMISED REPORT



SERUM INSTITUTE OF INDIA LTD.,
212/2, Hadapsar, PUNE - 411 028, INDIA
QUALITY ASSURANCE DEPARTMENT

TEST READINGS

AUTOCLAVE NO. : 0912202	CHARGE NO. : 123	DATE : 09-Dec-2002	TEMPERATURE OF PROBES																	
TIME (HRS)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
14:31:51	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
14:33:16	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
14:37:22	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
14:37:28	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
14:37:35	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
14:37:36	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
14:37:40	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
14:37:46	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
14:37:55	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
14:37:56	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
14:38:01	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
14:38:06	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
14:37:11	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
14:37:16	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
14:37:21	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
14:37:26	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
14:37:31	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
14:37:36	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
14:37:41	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
14:37:46	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
POTVAVE 125.01 124.3 124.2 123.3 123.4 122.5 123.2 121.4 129.8 129.1 129.0 128.0 127.8 127.7 128.7 128.0																				

Tend By :
Checked By :

Tabular Listing with FO value calculation

RANE BRAKE LININGS LIMITED, HYDERABAD DIVISION

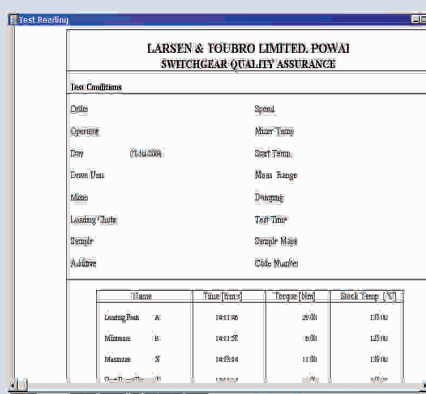
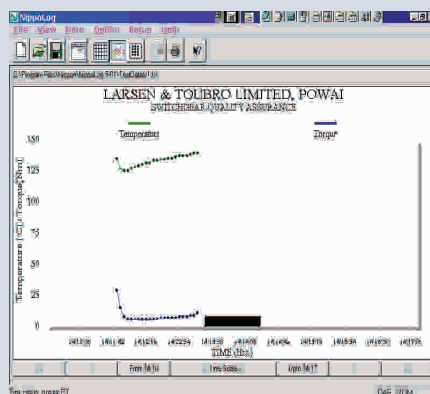
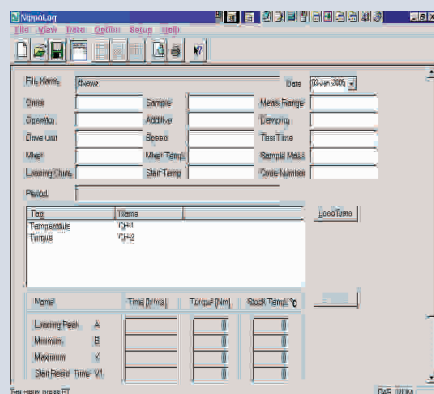
BAKING PROCESS RECORD

MIDDLE	M1						CUSTOMER	TELCO						
GRADE	A1						RECORD REF.	RR1						
BLOCK	I2						DATE	12/10/02						
QUANTITY	1200						BAKING BATCH NO.	BH2						
MIX BATCH NAME	Mdt2						PATTERN	BATCH						
TEMP RANGE	00 TO 1200 DEGG C						SIZE	9 * 9 * 12						
START TIME	09 December 2002 18:00:00						OVEN NO.	1						
TEMP REACHED AT	19:30:20						REMARKS							
CLOSING TIME	09 December 2002 22:00:00						NO REMARKS							
PROCESSED BY														
CHECKED BY														
TIME HRS	1	2	3	4	5	6	7	8	9	10	11	12	13	14
18:52:00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00
18:53:00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00
18:54:00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00
18:55:00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00
18:56:00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00
18:57:00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00
18:58:00	37.00	36.00	36.00	37.00	37.00	36.00	36.00	36.00	37.00	36.00	37.00	37.00	36.00	37.00
18:59:00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00
19:00:00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00
19:01:00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00
19:02:00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00
19:03:00	37.00	36.00	37.00	36.00	37.00	36.00	37.00	36.00	37.00	36.00	37.00	36.00	37.00	37.00
19:04:00	37.00	36.00	37.00	36.00	37.00	36.00	37.00	36.00	37.00	36.00	37.00	36.00	37.00	37.00
19:05:00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00
19:06:00	37.00	36.00	37.00	36.00	37.00	36.00	37.00	36.00	37.00	36.00	37.00	36.00	37.00	37.00
19:07:00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00
19:08:00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00

Tabular Listing with Batch details

INDOCO REMEDIES LIMITED													
L-14, Verna Industrial Area, Verna, Goa - 403 722.													
Reading From 17 September 2017:30:00 To 18 September 2017:01:30:00													
TIME	HRS												
	1	2	3	4	5	6	7	8	9	10	11	12	13
01:10:00	0.40	0.80	-0.00	-1.00	-1.20	0.80	0.10	0.60	-0.10	1.70	-0.90	0.80	0.30
01:20:00	0.40	0.80	-0.00	-1.00	-1.20	0.80	0.10	0.60	-0.10	1.70	-0.90	0.80	0.30
01:30:00	0.30	0.70	-0.80	-1.00	-1.20	0.80	0.10	0.60	-0.10	1.70	-0.90	0.80	0.30
01:40:00	0.40	0.80	-0.00	-1.00	-1.20	0.80	0.10	0.60	-0.10	1.70	-0.90	0.80	0.30
01:50:00	0.40	0.80	-0.00	-1.00	-1.20	0.80	0.10	0.60	-0.10	1.70	-0.90	0.80	0.30
01:60:00	0.30	0.80	-0.00	-1.00	-1.20	0.80	0.10	0.60	-0.10	1.70	-0.90	0.80	0.30
01:70:00	0.40	0.80	-0.00	-1.00	-1.20	0.80	0.10	0.60	-0.10	1.70	-0.90	0.80	0.30
01:80:00	0.40	0.80	-0.00	-1.00	-1.20	0.80	0.10	0.60	-0.10	1.70	-0.90	0.80	0.30
01:90:00	0.40	0.70	-0.00	-1.00	-1.20	0.80	0.10	0.60	-0.10	1.70	-0.90	0.80	0.30
02:00:00	0.40	0.80	-0.00	-1.00	-1.20	0.80	0.10	0.60	-0.10	1.70	-0.90	0.80	0.30
02:10:00	0.40	0.80	-0.00	-1.00	-1.20	0.80	0.10	0.60	-0.10	1.70	-0.90	0.80	0.30
02:20:00	0.30	0.70	-0.90	-1.00	-1.20	0.80	0.10	0.60	-0.10	1.70	-0.90	0.80	0.30
02:30:00	0.40	0.80	-0.00	-1.00	-1.20	0.80	0.10	0.60	-0.10	1.70	-0.90	0.80	0.30
02:40:00	0.40	0.80	-0.00	-1.00	-1.20	0.80	0.10	0.60	-0.10	1.70	-0.90	0.80	0.30
02:50:00	0.40	0.70	-0.00	-1.00	-1.20	0.80	0.10	0.60	-0.10	1.70	-0.90	0.80	0.30
02:60:00	0.40	0.80	-0.00	-1.00	-1.20	0.80	0.10	0.60	-0.10	1.70	-0.90	0.80	0.30
02:70:00	0.30	0.80	-0.00	-1.00	-1.20	0.80	0.10	0.60	-0.10	1.70	-0.90	0.80	0.30
02:80:00	0.30	0.80	-0.00	-1.00	-1.20	0.80	0.10	0.60	-0.10	1.70	-0.90	0.80	0.30
02:90:00	0.40	0.70	-0.00	-1.00	-1.20	0.80	0.10	0.60	-0.10	1.70	-0.90	0.80	0.30
03:00:00	-	-	-	-	-	-	-	-	-	-	-	-	-
Minimum	0.30	0.70	-0.90	-1.00	-1.20	0.70	0.00	0.60	-0.20	1.60	-0.90	0.80	0.20
Maximum	0.40	0.80	-0.00	-1.00	-1.20	0.80	0.10	0.60	-0.10	1.70	-0.90	0.80	0.30

Tabular Listing with Minimum / Maximum Calculation



Torque / Temperature Analysis for Switchgear Quality Assurance

Nippon RS232 TO RS485 CONVERTOR

CONVERT9001



CONVERT9001 is designed for computer connectivity. The product is designed from state-of-the-art micro-controller. CONVERT9001 offers two modes of communication. One is RS232-RS485 & other one is RS485-RS232.

Serial RS232 data can be converted to RS485 data. RS485 data can be converted to RS232 data. RS485 is available with 2/4-wire option.

The instrument is having D type connectors, the sturdy and modular design offers excellent performance in data communication.

SPECIFICATIONS:

COMMUNICATION PORT	9-Pin D-type FEMALE Connector For RS-485 25-Pin D-type MALE Connector For RS-232
DISPLAY	LED Indications Power, DTR, Tx (TRANSMIT) and Rx (RECEIVE)
POWER SUPPLY	90 - 260 vac, 50Hz
POWER CONSUMPTION	LESS THAN 5VA @ 230 VAC
OPERATING TEMPERATURE	00 TO 50°C
DIMENSIONS	72 mm (W)* 72 mm (H)* 110 mm (D)
WEIGHT	250 grams.

Nippon MEMORY BANK

OPERATIONS

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.

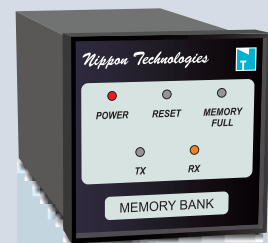
HandyNippos are widely used in Logistics, Dispatch Automation, Distribution Solutions & Inventory Management.



HandyNippo



MiniNippo



Nippo72

SPECIFICATIONS	HandyNippo	Nippo72
MEMORY	2 Megabytes, 4000 Readings - 16 Channels 4000 Readings - 8 Channels	64 Kbytes, 500 Readings - 16 channels, 750 Readings for 8 channels
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	LED Indications : Power, Reset, Memory Full, Tx and Rx.
POWER SUPPLY	Rechargeable Battery	90 - 260 VAC, 50Hz.
POWER CONSUMPTION	Less than 3VA	Less than 5VA@ 230 VAC
AMBIENT CONDITIONS	Temp 55°C & Relative Humidity 99%	
BOX	Handy, 186mm(H) x 105mm(W)	72 mm (W) x 72 mm (H) x 110 mm (D)
WEIGHT	150gms, easy to carry with Soft Leather Carry Case	250 grams

Nippon UNIVERSAL PROCESS SCANNERS



SPECIFICATIONS

INPUT	: Universal (R.T.D., T/C, Linear Inputs user programmable)
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	: LED Models : 4- digits for process & 2 - digits for Channel number. Bright seven segment display & L.E.D.'s LCD Models : Graphic LCD 64 x 128 Character LCD 16 Character x 2 Lines
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 maximum 2 relays. For extra relays or groups contact factory.
COMPUTER INTERFACE	: RS232 / RS485 / Modbus available.
DESIGN	: 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.
AMBIENT CONDITIONS	: Temp 55°C & Relative Humidity 99%.
BOX	: 96H x 96W x 150D, 96H x 192W x 200D & 192H x 96W x 200D DIN size, ABS Moulded Plastic Case, Wall / DIN Rail Boxes, Flameproof / Weatherproof enclosure certified by C.M.R.S. Dhanbad

DATA CABLE



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