Nippon Technologies

UNIVERSAL PROCESS INDICATOR / CONTROLLER

Nippon Technologies

499.9 MT
RLY1 **499.9** RLY2

SET | F1 | F2 | ENT.

UNIVERSAL PROCESS INDICATOR / CONTROLLER

Universal Process Indicator/Controller UN2000 is a giant step in measurement technology. UN2000 can measure Temp, PH, ORP, Flow, Conductivity, Level, Weight, %, Speed and any other parameter from 2-WIRE Transmitter. It finds application where different types of transmitters with wide ranges are to be displayed. The INSTRUMENTATION DEPT. is at ease to monitor various process variables with reduced inventories and high accuracies. The confusions at the site during installations are avoided.
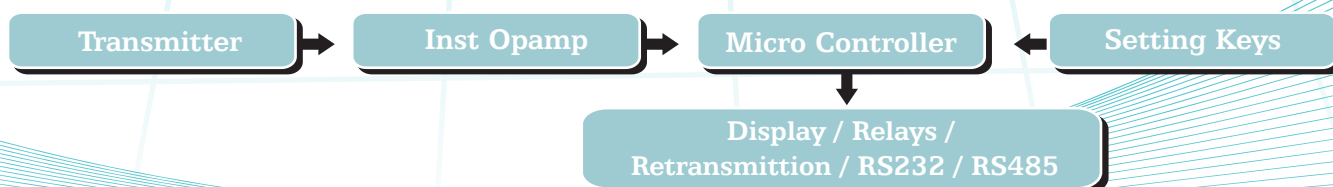
> **Versatile**
>
> **Programmable**
>
> **RS232/RS485**
>
> **4-20mA Re-transmission /Control**

Specifications

Input	From 2-wire transmitter (4 to 20 mA), 24 VDC available
Range	User selectable measuring ranges Programmable from − 1999 to + 1999, with decimal point freely configurable from most to least significant digit
Accuracy	± least count (i.e. 1 or 0.1)
Setting	Easy setting of measurement ranges and High/Low limits by Feather − touch, elegant, long life and user friendly membrane key pads No trimpots to be touched
Display	Bright seven segment, 4 digits for parameter and 4 digits for status
Limits	High and Low Limits
Controls	On − Off, Time Proportional, PI control action
Dead Band	Programmable
Logic	Heater or Alarm Programmable
Output	2 Relays corresponding to each limit rated 230 V/6 Amp.
Re-transmission O/P	User programmable 0-20mA / 4-20 mA. On request
Computer Interface	RS232 or RS485 available
Password	Lock facility to avoid tampering
Design	Modular, Sturdy and Wireless design
Noise Immunity	EMI/RFI interference is suppressed by MOV's and R-L-C filters
Supply	90 − 260 VAC, 50 Hz
Ambient Conditions	Temp. 55°C and Relative humidity 99%
Box	Height − 96mm; Width − 96mm; Depth-150mm; DIN size
Notes	1. Control o/p with PI control action and 4-20 mA Control o/p on request 2. "Soaking time" function on request 3. S.S.R. o/p available

Transmitter → Inst Opamp → Micro Controller ← Setting Keys

Display / Relays / Retransmittion / RS232 / RS485

LINEARISED TEMPERATURE INDICATORS

Nippon1010M is linearised temperature Indicator. Thermocouples like Pt / Rh (R, S), B are used for wide and high temperature ranges. EPROM linearisation helps to trace the temperature curve accurately. The Indicating accuracy $\pm 1\,°C$ is achieved for the entire TEMPERATURE range. Refer Table – 1 for the range / accuracy. Instrument is widely used in Glass mfg., metal Treatment, furnace and laboratories... etc...

Type		Range	Accuracy
Pt / Pt Rh 13%	"R"	0 - 1700 °C	± 1 °C
Pt / Pt Rh 10%	"S"	0 - 1700 °C	± 1 °C
Pt-6% Rh/Pt-30% Rh	"B"	100 - 1820 °C	± 1 °C
Copper/Co-Nickel	"T"	0 - 200.0 °C	± 0.1 °C
Nickel-Chromium/Copper-Nickel	"E"	0 - 800 °C	± 1 °C

Table 1

Note : Contact factory for Control o/p

VOLUME / LEVEL INDICATORS and CONTROLLERS

Universal Process Indicator / controller is widely used for measuring level & in turn volume. Arithmetic capabilities of "microcontroller" is used. Level is measured with help of level transmitters, the Cross Sectional area of the storage TANK is to be programmed in the instrument. Instrument will calculate VOLUME of the liquid present inside the tank. The formula used is VOLUME = HEIGHT x AREA.

The above instrument along with NIPPOLOG can provide excellent INVENTORY MANAGEMENT for LIQUID STORAGE TANKS.

Level Control can be achieved using control functions of the instrument.

WEIGHT INDICATORS and CONTROLLERS

Load 2000 is used for accurate weight measurement and controls. Load 2000 provides precise excitation voltage to the load cell.

The load cell o/p is measured & displayed. Instrument is provided with 2-Relay o/p s.

S.S.R. o/p is provided for faster CLUTCH/BRAKE operations.

Load 2000 is widely used in Dozing, Packaging, Textiles, Winding ...etc...where accurate WEIGHT measurement is must.

DUAL CHANNEL BARGRAPH INDICATORS

BAR2000 series a hightech range is giant step in measurement technology. BAR2000 has 2 channel BARGRAPH displays. The instrument finds application in measurement of LEVEL, FLOW, VOLUME, WEIGHT, TEMPERATURE, HUMIDITY, % SPEED and any other process parameters. The continuous comparison of two process parameters is now easy for INSTRUMENTATION DEPARTMENT.

NOTE : Our manufacturing units are well equipped with necessary testing facilities like Calibrators traceable to N.P.L., Delhi and tested at E.R.T.L. / I.D.E.M.I., Computerised Simulators and So on.

Nippon Technologies

MFGS. AND DESIGNERS :
Instruments, SCADA & Automation Systems, Sensors

106, Shivsagar Indl. Estate, Opp. Kotkar Indl. Estate, Kotkar Road, Goregaon (E), Mumbai – 400 063. India.
Tel : 6574 1527 / 2872 7294 • Fax : 2876 5709
E-mail : nippontech@vsnl.com

SALES OFFICES

Surat : Road No. 6, Udhna, Surat, Gujarat.
Tel : (0261) 2278422 / 6544180
Fax : (0261) 2279423
E-mail: dipan@nipponinstruments.com
Dubai : ACME Electromechanical Works LLC,
Tel : (009714) 2583122 / 2583144
Fax : (009714) 2583166

Pune : (9520)24376245
Bardoli : 09824111394
Kolkata : 09831057357 / 9831152530
Hyderabad : (040)27173714 / 24
Goa : (0832)2312710 / 6702 / 7399
Bangalore : 09341875222

Durg : (0788)2211212 / 3105117 / 9827111400
Delhi : (011)26903568 / 26340095 / 96 / 97
Gwalior : (0751)2231951 Fax : 0751-2344889
Chennai : 9382744155 Telefax.: 044-22292383
Jamshedpur : (0657)2420672 Fax : 0657-2433977
Visakhapatnam : (0891)2702415 / 9441944947