

DIGITAL TEMPERATURE INDICATORS / CONTROLLERS



Single Set Point TEMP. INDICATOR / CONTROLLER

Nippon 2020 is a Digital Temperature Indicator / Controller with Potentiometer - Trimpot setting. They are widely used in Plastic Moulding Machines, Laboratory and Scientific Equipments, Boilers, Ovens, Furnaces, Packaging Machines, Constant Temperature Baths and many other applications where precise Temperature Indication and Control is required.

- Wide temperature range.
- Accepts various thermocouples and R.T.D. inputs.
- Accurate and easy to read L.E.D. display.
- Automatic ambient temperature compensation.
- ON/OFF or Time Proportional Control
- Modular design



48 x 48 x 100

1-Set Point TEMP. INDICATOR / CONTROLLER

Nippon 202048 is a unique product housed in 48H x 48W DIN size box. The surface mounting devices and engineering expertise has given birth to this tiny and robust model. The top switch power supply supports 90 - 260 VAC.

Specifications

Principle	Input signal is signal conditioned, linearised and amplified. It is compared with the set point and accordingly relay operates.
Inputs	J,K,R,S,T and other thermocouples, R.T.D's like Pt-50, Pt-100 (2~3 wire), 0-1VDC, 4-20 mA... Etc.
Range, Indicating Accuracy, Resolution	Refer Table - A
Ambient Compensation	Automatic
Setting	By push button - COARSE/FINE pots or by membrane key - trimpot
Setting Accuracy	Better than 0.2%
Output	Relay contacts rated at 230V/6A.
Control	ON-OFF or Time-Proportional (Refer Note on back side)
Sensor Open Protection	Built-in Indicates ' 1', Relay cuts-off.
Ambient Temperature	0-55 °C
Supply	230 VAC \pm 10%, 50 Hz standard, 90-260 VAC on request.
Box Size	96(H) x 96(W) x 180(D) or 72(H) x 72(W) x 110(D) or 48(H) x 48(W) x 100(D) or 48(H) x 96(W) x 110(D) in mm

Note : 24 VDC for loop power 4-20 mA input on request.

Nippon 2030

1 Set Point Temperature Indicator / Controller with Thumbwheel Setting



Thumbwheel setting is available in nippon 2030. The setting is done with help of 3/4-digit thumbwheel switches.

Instrument is housed in :

1 72 H x 72 W x 100 D or
1 96 H x 96 W x 180 D DIN size

Nippon 2022

2 Set Point Temperature Indicator / Controller



The setting is by 2 sets of push to set switch and trimpot. Trimpot is available as ten turn trimpot. The trimmer is used for setting the trimpot. Two relays corresponding to each set point are used in Heater / Heater, Heater / Blower and Alarm / Alarm Modes

Nippon 2032

2 Set Point Temperature Indicator / Controller with Thumbwheel Setting



Thumbwheel setting is available in Nippon 2032. The setting is done with help of 2 sets of 4-digit thumbwheel switches.

Instrument is housed in :

96 H x 96 W x 180 D DIN size

Nippon 2022S

Heater / Blower Temp. Indicator / Controller for Plastic Moulding



Nippon 2022S is having 2 Setpoints and 2 Relay outputs. The first setpoint is on front side, the second setpoint is on the back panel of the instruments. The second setpoint is used for putting on the blower if temperature overshoots.

Nippon 2020D

Temperature Indicator / Controller with Set point Display



Setpoint and process both are displayed simultaneously. The process display is 12.5mm height. The setpoint display is 8mm height. The power supply is 90-260 VAC.

Nippon 2020-1

1 Temperature Indicator / Controller with 1 inch Display



The display size is 1 inch. It is easy to read from longer distance. The instrument is housed in 72H x 144W Din size box.

Model No.	Sensor	Range	Calibration Accuracy	Resolution °C / °F
nippon 2020A	Pt-100 (2,3 wire)	-100.0 to 600.0 °C -148.0 to 1112.0 °F	0.25%	0.1
nippon 2020	Pt-100	-100.0 to 199.9 °C -148.0 to 199.9 °F	0.25%	0.1
nippon 2020	Pt-100	-100 to 600 °C -148 to 1112 °F	0.25%	1
nippon 2020	Iron/Constantan (J)	-100 to 600 °C -150 to 1112 °F	0.1%	1
nippon 2020	Chromel/Alumel (K)	-80 to 1200 °C -112 to 1999 °F	0.7%	1
nippon 2020	Pt/Rh (R,S)	+900 to 1600 °C +1652 to 1999 °F	0.5%	1

NOTES

- ON-OFF Control:** Relay is on upto the set temperature and cuts off at the set point. System temperature will come down and again relay will go on at temperature 2 °C below the set point. Same function is repeated. Adjustable deadband is provided for specific application.
- Time-Proportionating Control:** Relay will be ON and OFF in band of ± 2 °C of set-point. ON-OFF : time will adjust as per the heat requirement of the system. Of course total time cycle will be of 15 seconds.
- 4 1/2 digit Temperature Indicator/Controller Nippon 2020A.
- Contact factory for supply volts of 90 - 260 VAC & retransmission output



nippon instruments (india) pvt. ltd.

Manufacturers of : PROCESS CONTROL INSTRUMENTS AND SENSORS

301-302B, Alankar Indl. Est., Off Aarey Rd.,
Near Virwani, Goregaon (E), Mumbai 63. India
Tel : +91-22-2875 5867 / 6502 7674
Fax : +91-22-2875 2289
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