



Available size : 96x96, 96x48(H), 48x96(V)

External Box : Ex. Flameproof / M S or S S Box

Feature :

- Microprocessor based powerful & highly reliable controller.
- Universal Input T/C, RTD, linear input selection.
- Potential Free Relay contact output up to 1 / 2 / 3 / 4 Nos.
- 0.1% Accuracy of FSD.
- Isolated 0/4-20 mA process value retransmission output.
- All Configurations and Calibration from front panel keypad.
- High speed communicative serial (RS 232/485) interface.
- Transmitter loop power supply with current limit as standard.
- Power supply : 230V/110V AC or 24V/12V DC
- Optional GSM mobile connectivity.
- Fully Password Protected Operation.

INPUT (For all channel)

Type	Range	Code
J	-50 to 750 °C	JTC
K	-50 to 1200 °C	KTC
R	0 to 1750 °C	RTC
S	0 to 1750 °C	STC
T	0 to 400 °C	TTC
E	-50 to 500 °C	ETC
PT-100	-50 to 400 °C	PT
CU 53	-50 to 250 °C	PCU
LINEAR	-1999 to 9999	LNI
SPECIAL	-1999 to 9999	SPL

Main Vantage :

- Jumper less and fail safe design for long term consistent operation
- Fully password protection for tamper free operation.
- No separate loop supply required for 2 wire transmitter.
- User friendly menu for device configurations & calibration.
- All different inputs are in single controller.
- Field Configurable
- Highly communicative serial port for SCADA connectivity.
- Optional GSM mobile connectivity for remote data access.

Application :

- All On/Off control Application.
- Tank level controller.
- Laboratory and scientific instruments.
- Oven, boilers and furnace control applications.
- Plastic moulding machines.
- Packaging machinery.

Computer Software (SCADA) Available for On line Process Viewing, Controlling and Data logging.



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NASHA AUTOMATION
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DATASHEET | NA-101/102 | UNIVERSAL PROCESS CONTROLLER

Technical Specification :-		
Input	Input Type	T/C : K, J, R, S, E, N, T
		RTD : Pt100, Cu53 (2 wire & 3 wire)
		Current : 0 ~ 20mA DC , 4~20mA DC
		Voltage : 0-5V/1-5V, 0.5-2.5V/0-10V DC
		Special on demand : 0-75/200mV & 0-1/10V/100/300V DC
		0-75/200mV 0-100/300V DC Resistance : 0-500Ω, 0-1/5/10/100 KΩ
		Transmitter power supply : 24 V DC @ 30 mA max, isolated from I/p & O/P
		Cold junction comp. & Sensor break ind. : Software base Automatic.
Indication Control Mode	Range limits	As per input range table
	Accuracy	+/- 0.1 % of span for linear & RTD, +/-0.25 % for T/C
	Input impedance	>330 KΩ for Voltage ,mV, and T/C , 100 Ω for current
Output	Indication	PV & SV UT 102 & PV for UT 101- 0.56" 4 digit 7 segment display
	Status indication	LEDs for Relay status & Communication
	On Off control	Relay / SSR
	Dead Band control	High and Low Set point for level application
	Relay Output	● NO - C - NC Contacts , 5A@240 V AC Resistive ● 1/2/3/4 Relays / SSR output
	SSR Output	24VDC @ 20 mA ,12VDC @ 20 mA
	Retransmission Current & Voltage output	0~20/ 4~20 mA, 0~5V, 0~10V, 1~5V DC, fully 3 port isolated 1.5KV
	Communication Protocol & method	Modbus RTU RS-485/RS-232 communication
Communication	Programmable parameter & Contestable number	Baud rate, Parity, Node address, stop bit & 0-256 unit
	Wireless communication	GSM/GPRS base mobile (sms) communication
	Setpoint / Hysteresis / High scale / Low scale	Full range as per input selection.
Programmable Parameters	Relay logic	● F.S. high & low alarm ● Dead band alarm
	Display resolution	-1999 to 9999 fully configurable for linear input
	Programming of parameters	Through 4 tactile keys
	Other	(A) Dimensions (B) Panel cutout (C) Mounting (A) 96(H) x 96 (W) x 100 (D) (B) 92 x 92 (C) Panel Mounted
Other	(A) Supply voltage (B) Power consumption	(A) 110/230 V AC, 50/60 Hz (B) 4 Watt Maximum
	Operating ambient temperature and humidity	● 0~50 °C ● Below 90%, non condensing

Ordering Information :-

NA- 10	1	2	3	4	5	6	7	8	9	10
Display	Size	Input type	CNT. Output	RTS. Output	Aux. Power	Com.	Tps			
Type Code	Type Code	Select code from input table-1 for calibration	Type Code Code	Type Code Code	Type Code	Type Code	Type Code	Type Code	Type Code	Type Code
PV 1	96 X 96 9		None N -	None N -	230 V AC 1	NONE N	24 V DC 2			
PV+SV 2	96X48 (H) 7		Relay R 1•2 3•4	4-20mA C 1•2	110 V AC 2	RS-232 2	12 V DC 1			
	48X96 (V) 6		SSR S 1•2 3•4	0-10/5V V 1•2	24 V DC 3	RS-485 4	10 V DC 0			
			Special T 1	Special T 1		GSM M				



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