

DATASHEET | NA - 6001 | TEMP. AND HUMIDITY INDI. CONTROLLER



Controller size : 96x96

Sensor : FLP / duct mounted and wall mounted

Ex. Flameproof with S S box

Feature :

- FDA 21 CFR part 11 - GAMP-4 compatible.
- Micro controller based Temp. + Rh indicator controller in single enclosure.
- All channel are programmable ranges and unit (Through Front key pad).
- Highly stable Temp. + Rh sensor Available with different mounting.
- Potential Free Relay contact output For Temp. and Rh() up to 4 nos.
- Process parameter High and Low LEDs status indication for Both channels.
- MODBUS RTU multi drop RS-485 serial communication for PLC, SCADA etc.
- Password protection for calibration and programming mode.
- Software base Calibration for both channels.
- User programmable offset correction.
- Wall mounting/FLP and Duct mounted Sensor available.
- Isolated 2 X 4-20mA Retransmission output for Temp & Rh.
- Transmitter loop power supply with current limit as standard.
- Power supply :230V/110V AC. Or 24V/12V DC
- Sensor Accuracy : RH - 2% / 3% , Temp.- 0.25 % of Span.
- Ex. Flameproof model available for Hazardous applications.

Application :

- Stability chambers.
- Clean room applications.
- Laboratory and scientific instruments.
- Pharma Environments monitoring application.
- Where Temp. and humidity indication and control require.

FDA 21 CFR part 11 compliance data logging computer software available (SCADA).



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NASHA AUTOMATION
An ISO 9001: 2008 Certified Company

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Specification For Controller :-

Input	Nos. of input	2 nos. (TEMP + RH)
	Temperature input	external: 4-20 mA or 0-10 V / RTD PT-100)
	Humidity input	external: 0.8 to 3.9 V dc / 0-5 v dc / 4-20 mA or 0-10 V DC)
	Transmitter power supply	24V/5V DC @ 30 mA max, isolated from I/P & O/P
Indication	Temperature	Channel-1 : 4 digit 0.56" LED Seven segments display.
	Humidity	Channel-2 : 4 digit 0.56" LED Seven segments display.
Range	Temperature	Programable with decimal point.(0 to 60 *c)
	Humidity	0 to 100.0 % with decimal point.
	Display Resolution	000.0 for temp and humidity.
Accuracy	Temperature	0.25 % on FS for Temp. input
	Humidity	0.1 % for Rh input
Output	Relay Output	1/2/3/4Relays NO - C-NC Contacts, 5A@240 V AC Resistive
	SSR Output	24VDC @ 20 mA ,12VDC @ 20 mA
	Re transmission Current & Voltage outputs	0~20/ 4~20 mA, 0~5V, 0~10V, 1~5V DC, fully 3 port isolated 1.5KV
Communication	Communication Protocol	Modbus RTU RS- 485 isolated communication.
	Programmable parameter	Baud rate , Parity , Node address , Stop bit.(minute and hour)
	Read /write parameter	Read : Process value, Decimal point Write : High Low set point
	No. of slave ID	Total 1-256 unit
Parameters Programmable	Set point / High scale / Low scale/Time(MM+HH)	Full range as per input selection
	Programming of parameters	Through 4 tactile keys (with password protection)
	Alarm logic	Full Scale High or Full Scale Low
Other	Mounting	Bricks and modules wall Flush panel mounting
	Enclosure MOC	M S powder coated enclosure
	Supply voltage & Power consumption	230 V DC & as per on display size
	Operating ambient Temperature and Humidity	Temp: 0~60 °C Humidity: Below 90%, non condensing

Specification For Sensor :-

Range	Temperature	0 to 60 *c
	Humidity	0 to 100.0 % with decimal point.
Accuracy	Temperature	0.25 % on FS for Temp. input
	Humidity	+/- 3 % of span.
Repeatability	Temperature	0.1 % on FS.
	Humidity	0.5 % on FS.
Output	Temperature	RTD pt100 or 4-20 mA / 0-10 v dc
	Humidity	0.8 to 3.9V dc / 4-20 mA / 0-10 v dc
Mounting	Wall mounting , duct mounting ,chamber mounting, flame proof.	

Ordering Information :-

NA - 6001-		1	2	3	4	5	6	7	8	9	10	11							
Controller type		Sensor		Temp. O/P			RH. O/P			Temp.RTX.o/p		Rh RTX.o/p		Aux. Power		Comm.		Tps(2 nos.)	
Type	Code	Type	Code	Type	Code	Code	Type	Code	Code	Type	Code	Type	Code	Type	Code	Type	Code	Type	Code
Panel Mounted	P	None	N	None	N	—	None	N	—	NONE	N	NONE	N	230 V AC	1	NONE	N	24 V DC	2
Flame Proof	F	Wall mounted	W	Relay	R	1•2	Relay	R	1•2	4-20mA	C	4-20mA	C	110 V AC	2	RS-232	2	12 V DC	1
		Duct mounted	D	SSR	S	1•2	SSR	S	1•2	0-10/5V	V	0-10/5V	V	24 V DC	3	RS-484	4	5 V DC	0
		Flame proof	F	Special	T	1	Special	T	1	Special	T	Special	T						



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