

# PROCESS INDICATOR / CONTROLLER

UPC 5200 is a new approach to Process Measurement and integrated Control I/Os which Measures input from Temperature(J,K,T,R,S,RTD, mA/Volt), Current(4-20 mA / 0-20 mA), Volt(0-10v / 1-5v). Our Process Indicator which acts as a controller device with respect to the input by providing two number of Relay's.



## Technical Specification

Model	UPC 5200
Input Type (Any one Specified input)	Thermocouple, RTD, mV & mA (supports J,K,R,S,T Thermocouples and RTD) Volts : 0-10v / 1-5V, Current : 4-20 mA / 0-20 mA
Accuracy	± 0.25% OFS + 1 Count
Working Range Thermo Couple Type	J => 0°C - 600°C Resolution 1°C K => 0°C - 1200°C Resolution 1°C T => 0°C - 400°C Resolution 1°C R => 0°C - 1700°C Resolution 1°C S => 0°C - 1700°C Resolution 1°C RTD => 0°C - 200°C Resolution 0.1°C mA / Volt => Programmable
Sampling Period	0.5Sec
Open Sensor detection	Available
Cold Junction Compensation	Available for Thermocouples
Input Resistance	Thermocouple / mV / Volt - 100K , Current - 250 mA

## DISPLAY & KEYPAD DATA

Type	4 Digit 0.56" Seven segment Red LED
Displayed Data	Process value, Set point 1&2, Control Band
Status Indication	Relay1, Relay2 & Comm. Status
Operator Interface	Four Keys. (Index, Shift, Increment & Enter)
No. of Set Point	Two
No. of Band Set	Two
Memory Backup	Provided with EEPROM

## OUTPUT

Relay Output	Two
Relay control action	ON/OFF Control. Relay ON Below Set point. Relay ON Above Set point.
Control Output	1C/o Potential free contact for each two Relays
Contact Rating	5Amps at 230V AC
Transmitter Power supply	24VDC, 0.5%, 30mA to Transmitter
Retransmission output	4-20mA Proportional to Process Value with Galvonic Isolation and 0-500Ω Load Resistance
Retransmission O/P Accuracy	± 0.5% OFS

## COMMUNICATION OUTPUT

Type	RS 485 Modbus RTU Standard
Speed	9600 Bps
Data Pattern	8 Bit,1 Stop, Parity none

## MECHANICAL DATA

Dimension	Bezel : 96 x 96 mm Cutout : 91 x 91 mm Depth : 80mm
Enclosure	ABS Plastic
Mounting	Panel
Fixing	By Side clamps

## AUXILIARY POWER SUPPLY

Rating	90 - 270VAC +/- 50Hz
Dielectric Strength	2kV AC between Casing and Auxiliary

## ENVIRONMENT

Temperature	10-55 Deg. C
Relative Humidity	95% Rh. Non Condensing

### Digital ON / OFF controller with Band setting

- Accuracy  $\pm 0.25\%$  OFS
- Configurable control parameters
- Digital Calibration
- Any one Input RTD / TC (J,K,R,S,T) / V / mA
- Two control Relay Output
- Password protected front panel Key settings
- Two Relay control with Band
- Optional Features : Retransmission Output (Isolated) 4-20mA
- Transmitter Power Supply.
- RS 485 Serial Communication



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