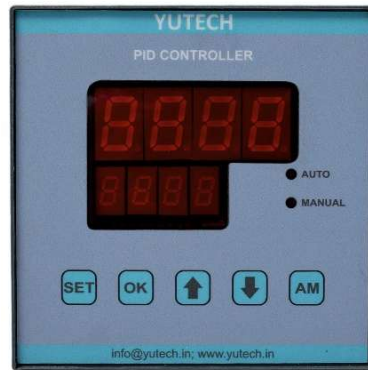


# ON-OFF PID TIME PROPORTIONATE TEMPERATURE CONTROLLER

## IDEAL FOR ACCURATE TEMPERATURE AND POSITION CONTROL APPLICATIONS



**A10DPCTP1**  
**ON-OFF PID TIME**  
**PROPORTIONATE**  
**TEMPERATURE CONTROLLER**  
**POWER SUPPLY: 230VAC**  
**INPUT:**  
**CHANNEL-1, UNIVERSAL,**  
**OUTPUT: RELAY ON / OFF TIME**  
**PROPORTIONATE**  
**RELAY:**  
**1 POTENTIAL-FREE**  
**ENCLOSURE: DIN 96 x 96**

### TECHNICAL SPECIFICATIONS:

- **POWER SUPPLY:** 85 - 265 VAC, 50 – 60HZ
- **ENCLOSURE:** ABS PANEL MOUNTED DIN 96 X 96
- **INPUT:**
  - **ANALOG INPUT (STANDARD INPUT): 16-BIT RESOLUTION**
  - CHANNEL-1: UNIVERSAL (4-20MA, 0-10VDC, RTD-PT100, THERMO-COUPLE K TYPE / J TYPE)
    - PROCESS VARIABLE FOR PID CONTROL
  - CHANNEL-2: 4-20MA CURRENT
    - SECONDARY PROCESS VARIABLE FOR RATIO OR REMOTE SET VARIABLE FOR PID CONTROL
  - **OTHER INPUT TYPES PROVIDED ON REQUEST MAY INVOLVE ADDITIONAL COST:**
  - THERMOCOUPLES: S, R, AND T (ONLY FOR CHANNEL-1)
- **CALIBRATION:**
  - **KEYBOARD:** IS PROVIDED ON THE FACIA FOR CALIBRATION AND TUNING
- **DISPLAY**
  - 4-DIGIT 7-SEGMENT LED DISPLAY FOR CHANNEL-1
    - PROCESS VARIABLE FOR PID CONTROL)
  - 4-DIGIT 7-SEGMENT LED DISPLAY FOR CHANNEL-2
    - SECONDARY PROCESS VARIABLE FOR RATIO OR REMOTE SET VARIABLE FOR PID CONTROL
  - LED BAR GRAPH FOR CONTROL OUTPUT
  - LED FOR ALARMS
- **OUTPUT:**
  - **POTENTIAL-FREE RELAY OUTPUT: CONTACT CURRENT RATING: 2 AMPS @230VAC**
  - 2 RELAYS
  - RELAY OUTPUT CAN BE PROGRAMMED FROM THE KEYBOARD, AS HIGH ALARM (TRIGGERS WHEN THE PROCESS VARIABLE RISES ABOVE THE ALARM SETPOINT) OR LOW ALARM (TRIGGERS WHEN THE PROCESS VARIABLE DIPS BELOW THE ALARM SETPOINT).
  - TIME PROPORTIONATE PID SINGLE OR DUAL RELAY OUTPUT SELECTABLE FROM THE KEYBOARD.
  - **TIME PROPORTIONATE PID CONTROL APPLICATION:**
  - TEMPERATURE CONTROL: SINGLE RELAY OPERATION, RELAY-1 CONNECTED TO HEATER COIL WILL GIVE ACCURATE ON-OFF TIME PROPORTIONATE PWM PID TEMPERATURE CONTROL.
  - POSITION / GOVERNOR CONTROL: DUAL RELAY OPERATION, ONE FOR FORWARD AND ONE FOR REVERSE ACTION FOR PNEUMATIC OR MOTORIZED ACTUATOR CONTROL, FOR POSITION / VALVE / GOVERNOR / CONTROLS THROTTLING.

PLEASE VISIT OUR WEBSITE [www.yutechautomation.com](http://www.yutechautomation.com).

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