

BTC7806



- 11-pin box for DIN-rail mounting
- Bright 3-digit 10 mm LED display
- Universal input for 4 RTDs, 6 T/Cs, and 3 linear types
- Up to 2 alarm relays with pulsed output
- Auxiliary output for powering external transmitters
- Fully programmable parameters
- **Keyboard adjustment controls**
- RS485 serial interface available

DESCRIPTION

BTC7806 is designed for wide range of applications. It is equipped with a 3-digit LED display, a universal input for Pt100, Pt1000, PTC, 6 thermocouple types as well as for linear current and voltage signals from external transmitters and can have up to 2 programmable relay control/alarm outputs. BTC7806 have a built-in circuit for self-testing and self-calibration, manual measurement offset setting, and automatic software compensation of line resistance and cold junction temperature. The display-to-input correspondence (in case of linear input), decimal point position, temperature measurement unit, and offset value are also programmable. Thanks to its universal input, , serial interface, and excellent price-to-performance ratio, BTC7806 is an exceptionally widely applicable device.

TECHNICAL SPECIFICATIONS

Construction: Plug-in to 11-pin socket for DIN-rail

Wiring : Screw terminals on socket

Housing : Plastic

: Input to supply to output Isolation Indication : LED 3-digit height 10mm

INPUT

Thermocouple R,S: 0-1000 °C

K : -20-1000 °C : **-**20-1000 °C B: 100-1000 °C : **-**40-400 °C

: -100 - 850 °C DIN Pt-100 3-wire Pt-1000 3-wire : -100 - 600° C DIN PTC (1k at 25°C) : -50 - 150.0°C PTC (2k at 25°C) : -50 - 150.0°C Voltage : 0 - 10V

Current : 0-20, 4-20mA, 4-20 extern transmitter

Custom linear : Specify Indication : -199 to +999 : -199 to +999 Scaling

: °C or °F programmable Unit Input, decimal point, offset fully programmable.

OUTPUT (Up to 2 outputs)

Relay : 250VAC 5A, NO/NC contact

Relay : 10' operations : 250VAC 1A SSR MOS gate : 60V/100mA isolated Extern SSR : 5-24VDC/30mA Communication : RS485 isolated (ASCII)



INSTALLATION

Supply : 90 to 250VAC/DC or 12 to 24VAC/DC

Ambient temp : -10 to +65°C, RH 0 to 85%

Storage temp : -20 to+80°C

Mounting : In 11-pin socket or on DIN rail

Protection : IP44/IP20

: W35 x H78 x D91mm with socket Size

Weight

PERFORMANCE

Accuracy error : $< \pm 0.15\%$ FS

Display : LED 3-digit, Height 10mm

Power consumption : 1,5VA

Isolation : Input to supply to output RTD line compensation : Automatic -10 to 80 °C Cold junction compensation: Automatic up to 2 x 25 ohm



ORDER INFORMATION

BTC7806

SUPPLY OUTPUT INTERFACE CUSTOM INPUT

230VAC X None X None X None B 115VAC C Relay B RS485 Z Specify

C 90-250V D SSR Q 12-24V M MOS E 9/12VAC J Ext.SSR

P 12-24V none R 24VAC

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PROGRAMMABLE CONTROLLER