BASI

PROGRAMMABLE ON/OFF CONTROLLER   BTC7837

- **11-pin box for DIN-rail mounting**
- **Bright 3-digit 10 mm LED display**
- **Semi-universal input**
- **RTDs, 3 T/Cs, and 3 linear types**
- **Auxiliary output for powering external transmitters**
- **Fully programmable parameters**
- **Keyboard adjustment controls**

DESCRIPTION

BTC7837 is designed for wide range of applications. It is equipped with a 3-digit LED display, a semi universal input for RTD, PTC, 3 thermocouple types as well as for linear current and voltage signals from external transmitters and can have 1 programmable relay control/alarm output. 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 and excellent price-to-performance ratio, BTC7837 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
Isolation	**:**	Input to supply to output
Indication	**:**	LED 3-digit height 10mm

INPUT

Thermocouple T	**:**	**-**40-400 °C
J	**:**	**-**20-999 °C
K	**:**	**-**20-999 °C
RTD, DIN	**:**	Pt50,Pt100, Pt500, Pt1000 (3-wire)
RTD, GOST	**:**	Pt46, Pt50, Pt100, Cu50, Cu100 (3-wire)
RTD range	**:**	-100 – 600°C
Voltage	**:**	0 – 10V
Current	**:**	0-20, 4-20mA, 4-20 extern transmitter
Indication	**:**	-199 to +999
Scaling	**:**	-199 to +999
Unit	**:**	°C or °F programmable

Input, decimal point, offset fully programmable.

OUTPUT

Relay	**:**	250VAC 5A, NO/NC contact
Relay	**:**	10^7 operations
SSR	**:**	250VAC 1A
MOS gate	**:**	60V/100mA isolated
Extern SSR	**:**	5-24VDC/30mA

INSTALLATION

Supply	**:**	115 or 230VAC 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
Size	**:**	W35 x H78 x D91mm with socket
Weight	**:**	180g

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

CE

ORDER INFORMATION

BTC7837

SUPPLY	OUTPUT	INPUT
230VAC	X None	B RTD
B 115VAC	C Relay	C TC
E 9/12VAC	D SSR	D 0 (4)-20mA
Q 12-24V	M MOS	DK 0-10V
R 24VAC	J Ext.SSR	

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