



PROGRAMMABLE ON/OFF CONTROLLER (6 front sizes)

BTC38

- **low cost**
- **5 front sizes - up to 1/32 DIN**
- **Low power consumption**
- **Semi-universal input**
- **Various power supplies**
- **Fully programmable parameters**

DESCRIPTION

The cheap programmable controller BTC38 is designed for wide range of ON/OFF control applications. Equipped with a 3-digit LED display, BTC38 is especially suitable for measuring and controlling various technological values with resolution of up to 1000 points. It can be ordered in various cases including the smallest 1/32 DIN case, and with different power supplies. The device has one programmable relay control/alarm output and is available in two universal-input versions: RTD - for 7 selectable Pt and 4 Cu sensor types, and T/C - for 3 selectable thermocouples as well as versions for linear current and voltage signals. BTC38 allows an automatic software compensation of line resistance and cold junction temperature. The display-to-input correspondence (in case of linear input), the decimal point position, the temperature measuring unit as well as the offset value are also programmable. Thanks to its power supply options, semi-universal input, and excellent price-to-performance ratio, BTC38 is an exceptionally widely applicable device.

TECHNICAL SPECIFICATIONS

Construction : Panel design to standard DIN 96 x 96, 96 x 48, 48 x 48, 72 x 36 and 48 x 24mm
Wiring : Screw terminals at rear panel
Housing : ABS Plastic black
Isolation : Input to supply
Indication : 3-digit red LED height, 14.2mm

INPUT

Thermocouple T : -40-400 °C
K : -20-999 °C
J : -20-999 °C
Pt-100 DIN=1.385 : Pt50, Pt100, Pt500, Pt1000 3-wire
Pt-100 GOST=1.391: Pt46, Pt50, Pt100, Cu50, Cu100 3-wire
Range : -100.0 – 600.0°
Voltage : 0-10 V
Current : 0-20, 4-20mA
and 4-20mA with transmitter supply
Indication : -199 to +999, °C and °F programmable

OUTPUT

Relay : 5A 250VAC NO/NC contact
SSR : 1A 250VAC
MOS gate : 60V/100mA Isolated
Extern SSR : 5-24VDC/50mA
Control function : On/off



INSTALLATION

Supply : 85 to 265VAC/DC, 24VAC or 12 to 24VAC/DC
Ambient temp : -10 to +65°C, RH 0 till 85%
Storage temp : -20 to +80°C
Mounting : Panel with bracket
Protection class : IP65 front, IP20 rear
Dimension : B96 x H96 x D98mm (type B)
B96 x H48 x D98mm (type H)
B48 x H96 x D98mm (type V)
B48 x H48 x D95mm (type S)
B72 x H36 x D56mm (type L)
B48 x H24 x D42mm (type M)
Weight : 300, 250, 200, 150 & 30g with bracket

PERFORMANCE

Accuracy error : < ±0.15% FS
Display : 3-digit red LED, height 14 mm
LEDs for output state
Keyboard : 2 or 3 membrane keys, lockable
Power consumption : 1,5 VA
Cold junction comp : -10-80°C automatic
RTD line comp : 2x 25 ohm automatic



ORDER INFORMATION

BTC38

TYPE	SUPPLY	OUTPUT	INPUT
B 96x96mm	A 230VAC	X None	B RTD
H 96x48mm	B 115VAC	C Relay	C TC
V 48x96mm	C 85-265V	D SSR	D mA
S 48x48mm	Q 12-24V	M MOS-gate	DK V
L 72x36mm	E 9/12VAC	J Ext. SSR	
M 48x24mm	P 12-24V none		
	R 24VAC		

INCREASED FRONT PROTECTION

X None
P IP65



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