

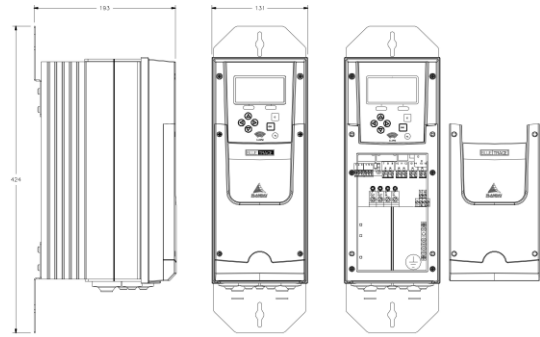
BT-300-1P BLUETRACE TECHNICAL DATA

MODEL: BT-300-1P

BlueTrace is a multi-purpose electronic controller designed for all your trace heating needs.

APPLICATIONS

- Freeze protection
- Process temperature maintaining
- Line or ambient sensing



ELECTRICAL DATA

Supply voltage:	100 - 277 VAC, 50 - 60 Hz. Single pole switching		
Power consumption:	8 W, internal operating voltage transformer		
Main circuit voltage:	100 - 277 VAC, 50 - 60 Hz		
Main circuit current:	50A @ 40°C (104°F), Absolute maximum 74A /<1s		
	Voltage:	Current: Control mode:	
Input 1:	100 - 277 VAC, 24 VDC	5A	Current limited input, function settable
Input 2:	100 - 277 VAC, 24 VDC	5A	Current limited input, function settable
Output 1:	100 - 277 VAC, 24 VDC	5A	Relay, change over contact: function settable
Output 2:	100 - 277 VAC, 24 VDC	5A	Relay, change over contact: function settable
Measurement TC:	RTD-100 ohm, 3-wire connection		
Measurement TL (BT-TL600):	RTD-100 ohm, 3-wire connection		
	Temperature Range -50°C (-58°F) to +600°C (1112°F) accuracy ± 0.1°C		

ELECTROMAGNETIC COMPATIBILITY

Immunity:	EN-61000-6-2:2005 / IEC 61000-6-2:2005
Emission:	EN-61000-6-4:2006 / IEC 61000-6-4:2007

MECHANICAL DATA

Dimensions:	Height: 16.7" (424 mm), Width: 5.1" (131 mm), Depth: 7.6" (193 mm)		
Weight:	8.8 lb. (4 kg)		
IP -rating:	IP54 / IEC 60529 / SGS 259732-1 NEMA 3		
Housing:	Heat sink: aluminum, Panel: ABS, Mounting hardware: steel		
Display:	Graphic display, Monochrome, contrast adjustment, resolution 128*64		
Keyboard:	Membrane keypad, IP54 (avoid mechanical stress)		
Cable entries:	2 x 3/4" NPT (19 mm), 3 x 1/2" NPT (13 mm)		
Connectors:	Supply voltage	14 awg.	screw terminal, wire A = 18 – 14 awg.
	Main circuit	6 awg.	screw terminal, wire A = 18 – 6 awg.
	I/O connections	14 awg.	plug/screw terminal, wire A = 20 – 14 awg.
	Temp. measurement	16 awg.	plug/screw terminal, wire A = 20 – 14 awg.
	Bus connections	14 awg.	plug/screw terminal, wire A = 20 – 14 awg.
	Programming / PC	USB	mini B-connector
	PE / TE	6 awg.	screw terminal, wire A = 18 – 6 awg.
	BT-TL600 contactor contr.	14 awg.	screw terminal, wire A = 18 – 14 awg.

ENVIRONMENTAL CONDITIONS

Operating temperature:	-40 to +60 °C (-40 to +140°F)	LCD function temperature -20 to +60 °C (-4 to +140°F)
Storage temperature:	-30 to +70 °C (-22 to +158°F)	

Trace Heating Redefined

DREXAN ENERGY SYSTEMS OFFERS THE MOST TECHNOLOGICALLY ADVANCED AND STRINGENTLY MANUFACTURED TRACE HEATING SYSTEMS THAT PROVIDE OUTSTANDING COST SAVINGS IN ENGINEERED DESIGN AND FIELD INSTALLATION.



COMMUNICATIONS

- Serial communication: USB
RS-485, additional feature, can be set to use Modbus-protocol
Profibus DP, additional feature
- Network connection: Ethernet module, CAT5e, 10BASE-T or 100BASE-TX, additional feature

ADDITIONAL CARD SLOTS

Two card slots for serial communication and network connections.
One slot for BT-TL600 temperature limiter card.

EQUIPMENT SAFETY

Meets the safety standard EN-61010-1:2001 (Ed 2), National Differences: CA, CH, US

PACKAGING INFORMATION

Size: Length: 21.7" (550 mm), Height: 8.9" (225 mm), Width: 6.3" (160 mm)
Country of origin: Warranty: Customs code: UNSPSC-code: ETIM-class:
FI 24 month 9032 10 20 40101800 EC000194

CERTIFICATES

SGS FIMKO: FI 27450; BlueTrace
VTT: VTT 11 ATEX 083X; BT-TL600
CSA: 2567936; BlueTrace, BT-TL600



CIRCUIT

