

Technical Data BurnerTronic BT300

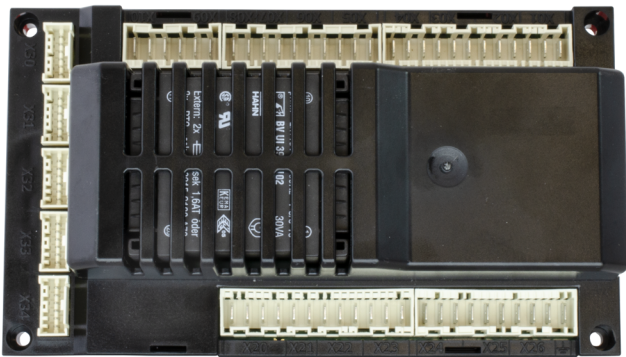


Fig. 1 BurnerTronic BT300

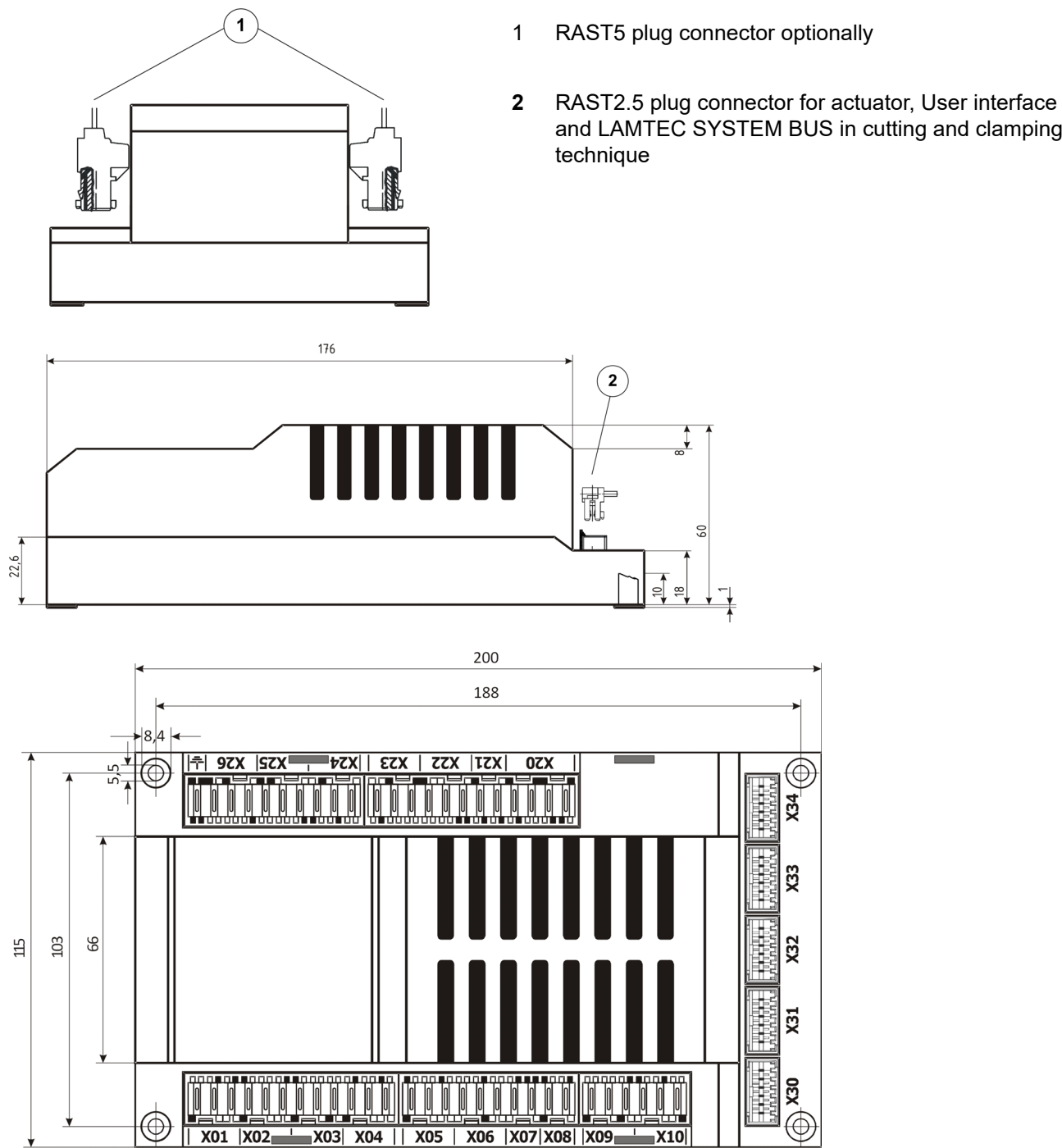


Fig. 2 Dimensions BT320 ... 341 (terminal assignment BT330/BT341 only)

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Function	
Power supply	230 V +10/-15 % 47-63 Hz 120 V +10/-15 % 47-63 Hz (on request)
Maximum backup-fuse	10 A slow-blow
	To be used only in a grounded power line network!
Power consumption	max. 30 VA
Switching threshold of ionisation current	1 μ A
Digital signal inputs	max. line length 10 m 33 ft max. line length 20 m 66 ft for the following signals: firing rate+ / firing rate- boiler safety interlock chain (SIC) burner ON reset el selection DFM
Digital outputs	3 fuel valves max. 1 A cos φ 0,4 VL fan max. 2 A cos φ 0,4 oil pump/operational report max. 2 A cos φ 0,4 ignition transformer max. 2 A cos φ 0,2 alarm output max. 1 A cos φ 0,3
Resolution	999 digit, 10 bit
Number of curve sets	BT320/330/331: 1 curve set (oil or gas) BT335: 2 curve sets (oil/gas switchable without DFM300) BT34x: 2 curve sets (oil/gas or gas/gas switchable; DFM300/ LCM100 required
Number of programs	unlimited (EEPROM)
Field bus-coupling (optional)	PROFIBUS DP Modbus TCP PROFINET LEM100 or LCM100 always required
Housing	polycarbonate + ABS
Dimensions (H x W x D)	200 x 115 x 61 mm 7.87 x 4.53 x 2.4" in
Weight	1.0 kg 2.20 lb
Flammability	UL-94 V0

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Operating conditions

Altitude above sea level

≤ 2000 m NHN	without restriction
2000 m < z ≤ 5000 m NHN	use possible with the following restrictions: – reduction of the maximum ambient temperature according to the diagram 'Temperature derating BT300 for operation >2000m NHN' – power supply 120 VAC – units for 230 VAC not approved for use > 2000 m ATTENTION: Different temperature ranges for DFM300 (see DLT1212)

Environmental Conditions

Operation	permissible temperature range	-20 ... +60 °C -4 ... +140 °F (condensation prohibited)	
	permissible ambient humidity	5 ... 95 % relative humidity	
Transport/Storage	permissible temperature range	-20 ... +70 °C -4 ... +158 °F (condensation prohibited)	
	permissible ambient humidity	5 ... 95 % relative humidity	
Degree of protection	DIN EN 60529	BT300	IP00 (housing)
			IP20 (terminals covered)
		UI300-V2 Front	IP40 (clamped)
			IP54 (glued)
			IP65 (with additional cover)
		UI300-LSB	IP20 (if all terminals are occupied)

EU Declaration of Conformity

2014/35/EU	Low Voltage Directive
2014/30/EU	EMC Directive
2014/68/EU	Pressure Equipment Directive Kat. 4 Mod. B+D
(EU) 2016/426	Gas Appliance Regulation (GAR)
2011/65/EU	RoHS

NOTICE

The limits of the technical data must be strictly adhered to.

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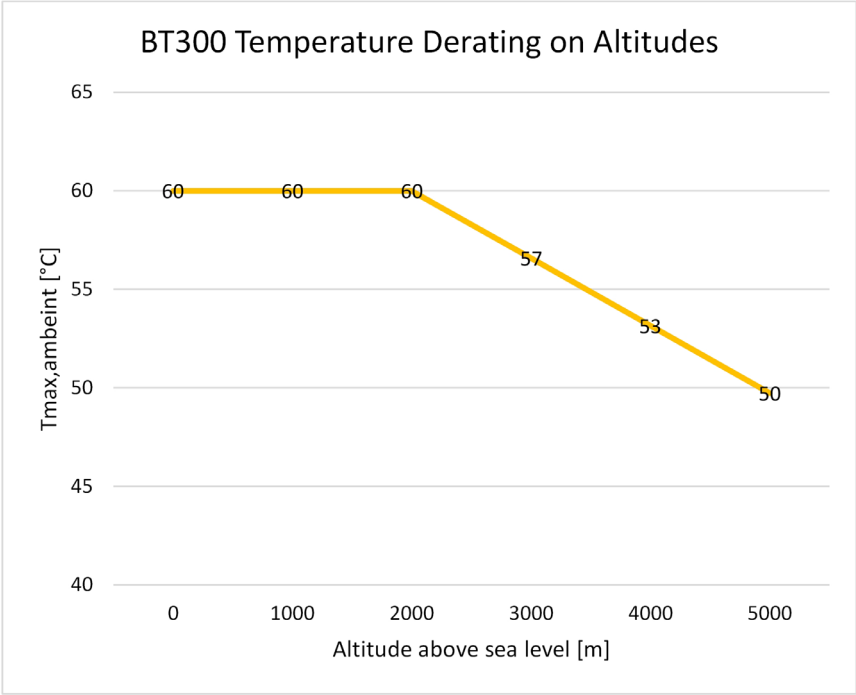


Fig. 3 Temperature derating BT300 for operation >2000 m NHN

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Order Information

Description/Type	Order-No.
BT320 (up to 2 actuators, intermittent operation only, 230 VAC)	667R1320-1
BT330 (up to 3 actuators, permanent operation, 230 VAC)	667R1330-1
BT330 (up to 3 actuators, permanent operation, 120 VAC)	667R1331-1
BT331 (up to 3 actuators, permanent operation, 230 VAC, with SIL Confirmation)	667R1330-2
BT331 (up to 3 actuators, permanent operation, 120 VAC, with SIL Confirmation)	667R1331-2
BT335 (up to 3 actuators, permanent operation, for dual fuel burners without DFM, 230 VAC)	667R1335-1
BT335 (up to 3 actuators, permanent operation, for dual fuel burners without DFM, 115 VAC)	667R1335-2
BT340 (up to 3 actuators, permanent operation, 2 fuels, switchable, for dual fuel burners 230 VAC, in connection with DFM300)	667R1340-1
BT340 (up to 3 actuators, permanent operation, 2 fuels, switchable, for dual fuel burners 120 VAC, in connection with DFM300)	667R1341-1
BT341 (up to 3 actuators, permanent operation, 2 fuels, switchable, for dual fuel burners 230 VAC, in connection with DFM300 with SIL Confirmation)	667R1340-2
BT341 (up to 3 actuators, permanent operation, 2 fuels, switchable, for dual fuel burners 120 VAC, in connection with DFM300, with SIL Confirmation)	667R1341-2

Description/Type	Order-No.
Software: PC Remote Software for BT300, incl. LSB service adapter, USB/CAN module and connecting cable	667R0300-1
Plug: complete connector set for BT300, filament proof to IEC60335-1, unassembled, screw connection, connectable conductor cross-section max. 2,5 mm ² (13 AWG)	667R0900-2

Approvals



only for
120 VAC

The information in this publication is subject to technical changes.



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