

Technical Data BurnerTronic BT300

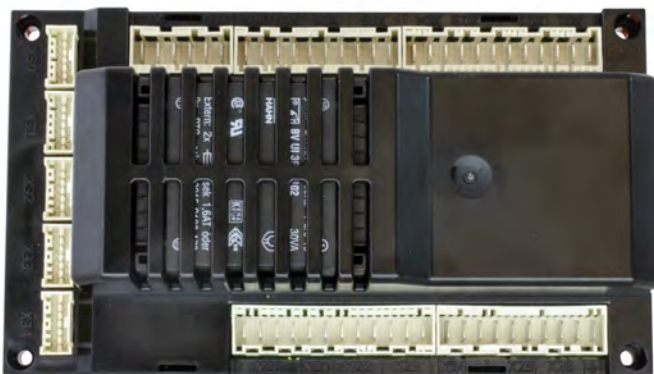


Fig. 1 BurnerTronic BT300

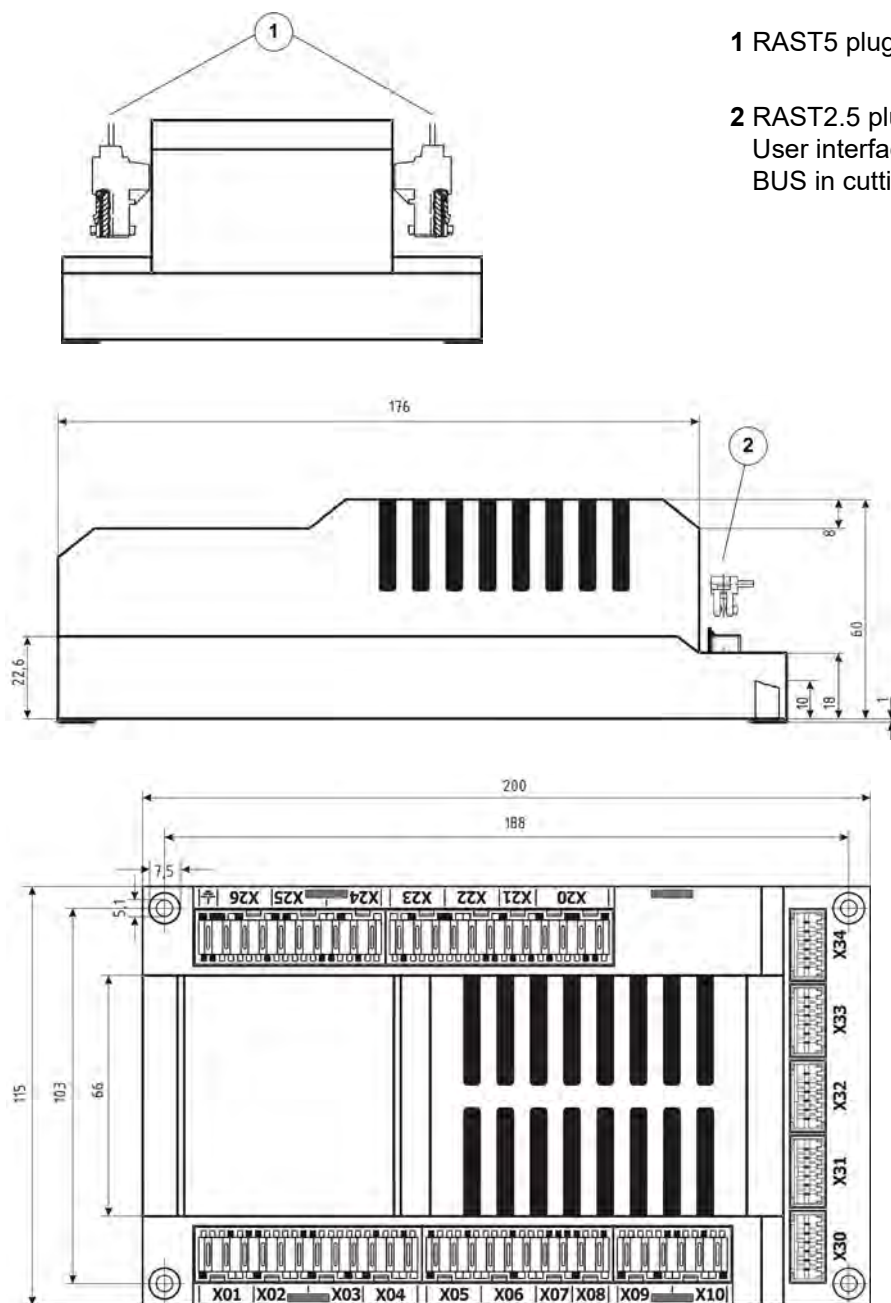


Fig. 2 Dimensions BT320 ... 341 (terminal assignment BT330/BT341 only)

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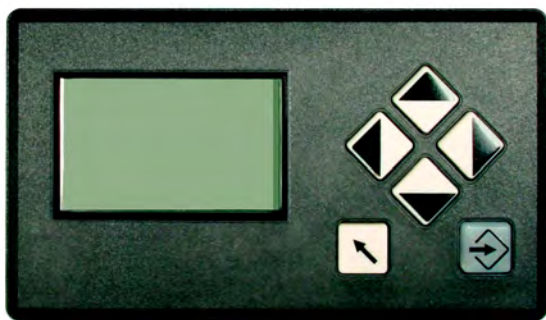


Fig. 3 UI300-V2 and UI300-LSB

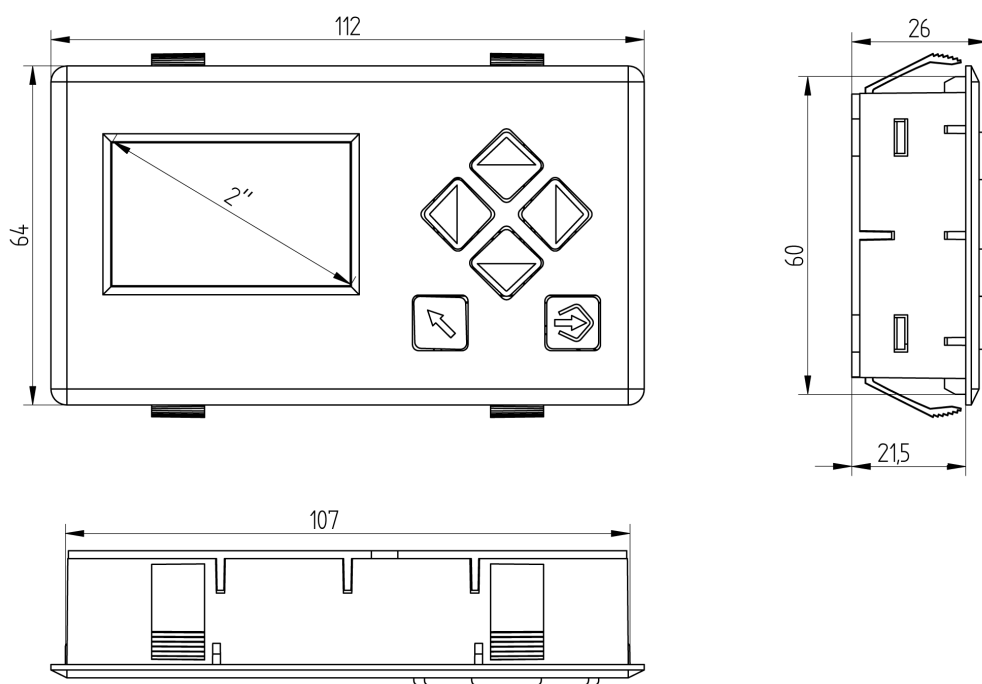


Fig. 4 UI300-V2 and UI300-LSB dimensional drawings

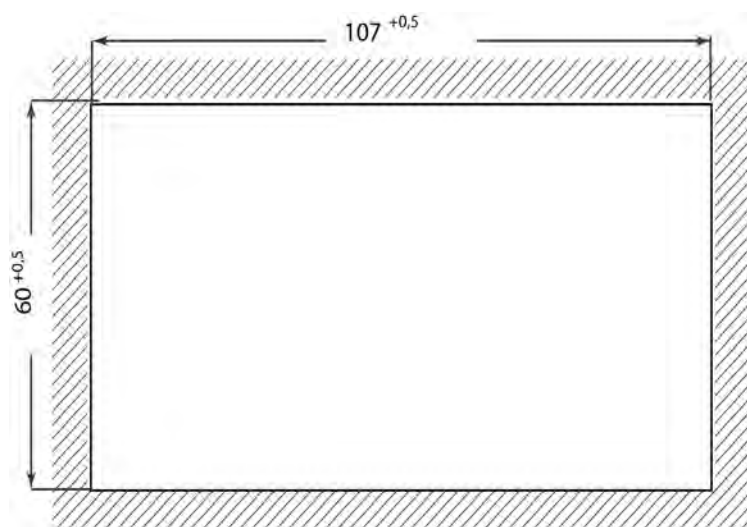


Fig. 5 UI300-V2 and UI300-LSB panel cut-out

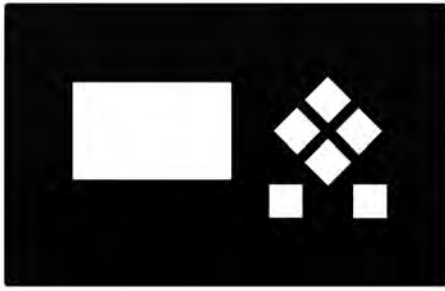


Fig. 6 Additional cover IP65 for the User Interface

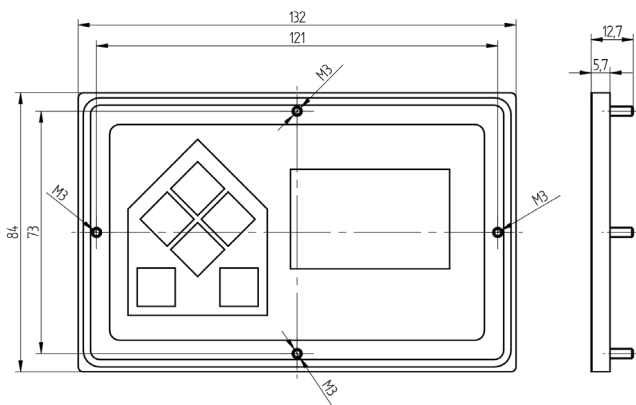
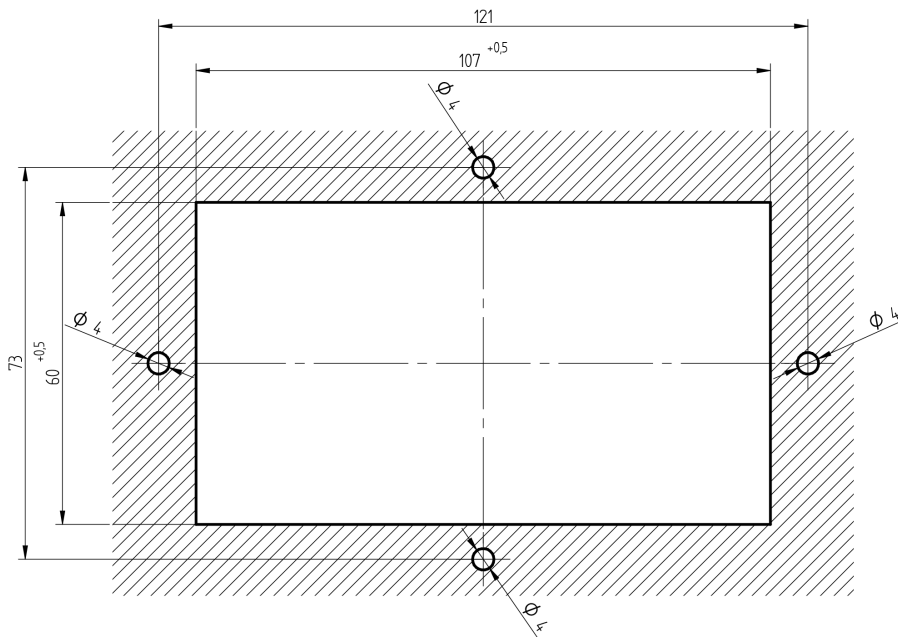


Fig. 7 Dimensional drawing for IP65



Create a square cut-out and ensure that the burrs are removed.

Height	60 mm 2.36 in
Width	107 mm 4.21 in

Fig. 8 Dimensional drawing panel cut-out including mounting bore for the IP65 cover

Technical Data BurnerTronic BT300

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 alarm fuel 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 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	BT320/33x: 1 curve set (oil or gas) BT34x: 2 curve sets (oil/gas switchable; DFM300 or 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 / 7.87x4.53x2.4" in
Weight	1.0 kg / 2.20 lb
Flammability	UL-94 V0

Display UI300-V2	
Display	128 x 64 pixel, monochrome white backlighting (dimmable)
Dimensions (H x W x D)	112 x 64 x 24 mm / 2.52 x 4.41 x 0.94" in
Weight	140 g / 0.31 lb
Housing	basic housing: polyamide glass fibre reinforced LCD-display window: polycarbonate
Flammability	UL-94 V0
Cable length	1 m / 3.28 ft

Display UI300-LSB	
Display	128 x 64 pixel, monochrome white backlight (dimmable)
Dimensions (H x W x D)	64 x 112 x 26 mm / 2.52 x 4.41 x 0.94" in
Weight	149 g
Power supply voltage	via LSB

Technical Data BurnerTronic BT300

Display UI300-LSB

Power consumption	1 W
Flammability	UL-94 V0
Cable length	2.5 m / 98.42" in

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" ATTENTION: Temperatures DFM300 different (see graph) - power supply 120 VAC - units for 230 VAC not approved for use > 2000 m

Environmental conditions

Operation	Climatic condition	Class 3K5 according to DIN EN 60721-3	
	Mechanical condition	Class 3M5 according to DIN EN 60721-3	
	Temperature range	-20 ... +60 °C / -4 ... +140 °F (condensation prohibited)	
Transport	Climatic condition	Class 2K3 according to DIN EN 60721-3	
	Mechanical condition	Class 2M2 according to DIN EN 60721-3	
	Temperature range	-20 ... +70 °C / -4 ... +158 °F (condensation prohibited)	
Storage	Climatic condition	Class 1K3 according to DIN EN 60721-3	
	Mechanical condition	Class 1M2 according to DIN EN 60721-3	
	Temperature range	-20 ... +70 °C / -4 ... +158 °F (condensation prohibited)	
Degree of protection	DIN EN60529	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)

Technical Data IP65 Cover of the User Interface

Dimensions (H x W x D)	84 x 132 x 5,7 mm 3.3 x 5.2 x 0.22 in
Mounting	by studs M3 x 6 mm M3 x 0.24 in
Material	foiled aluminium cover with O-ring seal

Environmental conditions

Degree of protection	DIN EN 60529	IP65
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NOTICE

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

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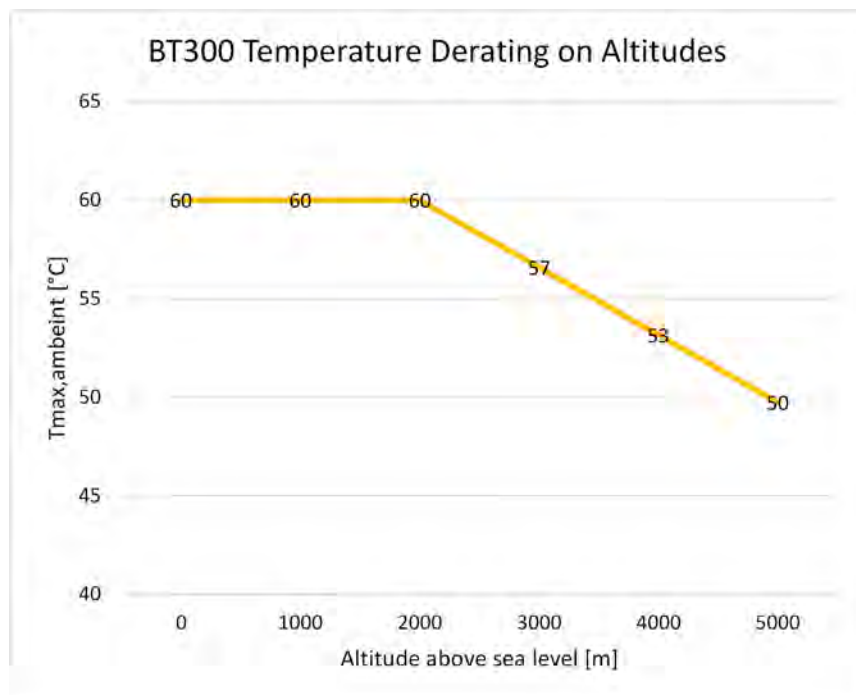


Fig. 9 Temperature derating BT300 for operation > 2000 m NHN

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
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
User Interface: UI300-V2 - User Interface with graphic display, in panel installation housing „standard“ housing colour RAL7016 incl. connecting cable, IP40 (with LAMTEC Logo), cable length 1 m (3.3 ft)	667R0100-1
User Interface: UI300-LSB - User Interface with graphic display, in panel installation housing „standard“ housing colour RAL7016 incl. connecting cable, IP40 (with LAMTEC Logo), cable length 2.5 m (8.2 ft)	667R0120-1

Accessories	Order-No.
Additional cover IP65 for user interface incl. fixing screws	668R0320