

Technical Data Lambda Transmitter LT4



Fig. 1 Housing LT4 with UI300-LT-V2 and IP65 Cover

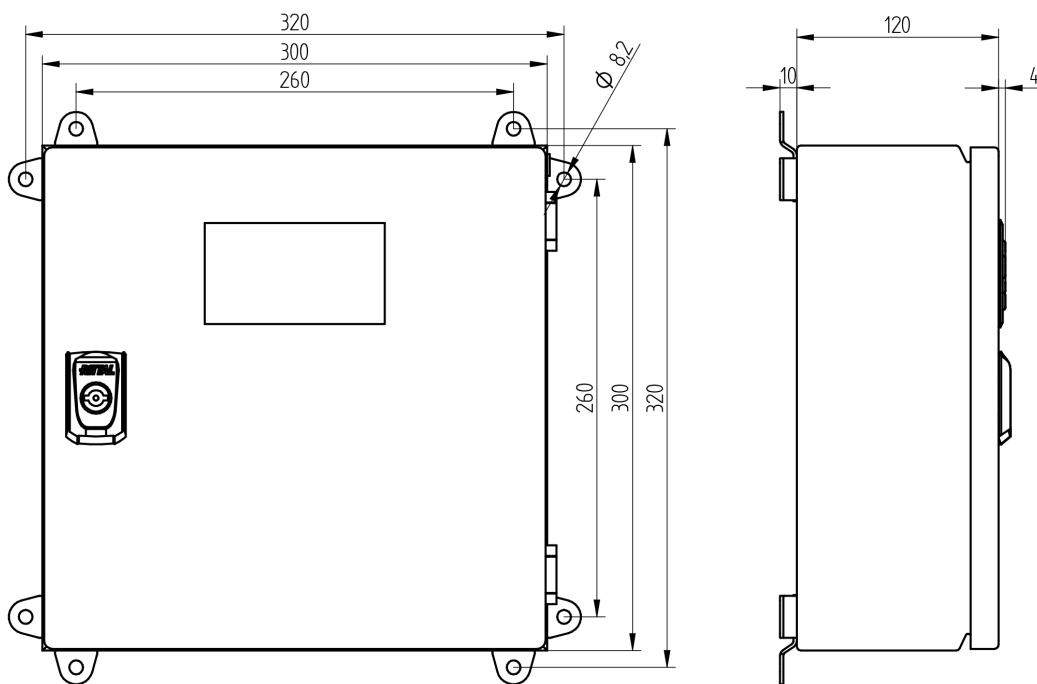


Fig. 2 LT4 dimensional drawing of housing with wall brackets vertical/horizontal

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LT4 at wall mounting housing with User Interface UI300-LT-V2

Housing	Mounting house of sheet steel, powder-coated
Dimensions (H x W x D)	300 x 300 x 120 mm 11.81" x 11.81" x 4.72" in
Colour	Light grey RAL 7035
Weight	approx. 6 kg 13.23 lb
Control elements	User Interface UI300-LT-V2 with LCD-Graphic Display 45 x 27 mm (WxH) 1.77" x 1.06" in (W x H) LSB-Remote-Software (Option)

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

Characteristics

Power supply	120 VAC / -30 % ... 230 VAC / +10 %, 50 ... 60 Hz Use only in earthed networks!
Power consumption	typically 30 W, max. 69 W
Resolution	O ₂ : 0.1 vol. % O ₂ CO _e : 1 ppm in CO range 0 ... 1,000 ppm
Time for operational readiness	In case of initial start-up of the probe 60 minutes, otherwise about 10 minutes after MAINS ON.

Analogue outputs

Analogue outputs via additional module	Analogue output 1 (O ₂ measured value)		
Precision: 1 %	– Setting range: 0 ... 25 % O ₂		
Load: 150 Ω/output	– Factory setting: 0 ... 10 vol. % O ₂ → 4 ... 20 mA/fault 0 mA		
	Analogue output 2 (CO _e measured value)		
	– Setting range: 0 ... 10,000 ppm		
	– Factory setting: 0 ... 1,000 ppm → 4 ... 20 mA/fault 0 mA		
	SIL2	for oil/gas	without FTU
	SIL1	for all fuels	without FTU
	SIL2	for all fuels	with FTU

Digital outputs

Failsafe digital outputs	– 6 safe digital outputs, 24 VDC, floating		
based on mV signals from the probe	SIL3	for oil/gas	without FTU
	SIL2	for all fuels	without FTU
	SIL3	for all fuels	with FTU

Efficiency calculation

Calculation of the combustion efficiency via additional module	– 2 Pt100 inputs for connecting of the flue gas and inlet air temperature 0 °C ... 400 °C 32 °F ... 752 °F		
	– 2 analogue outputs 0/4 ... 20 mA for the output of the flue gas air temperature and efficiency		

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Field bus connection

Field bus connection to PROFIBUS DP via additional module	– Reading of values, statuses, faults, and warnings – Reset of faults and warnings – Setting of digital outputs
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LAMTEC SYSTEM BUS (LSB)

Direct communication with LAMTEC burner control units	Transmission of measured values, warning and fault messages, receiving commands
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Environmental Conditions

Operation	perm. temperature range	-20 ... +60 °C -4 ... +140 °F
Transport	perm. temperature range	-40 ... +70 °C -40 ... +158 °F
Storage	perm. temperature range	-40 ... +70 °C -40 ... +158 °F
Degree of protection	according to DIN EN 40050	IP65

EU Declaration of Conformity

2014/35/EU	Low Voltage Directive
2014/30/EU	EMC Directive
2011/65/EU	RoHS

Only in combination with FTU:

(EU) 2016/426	Gas Appliance Regulation (GAR)
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NOTICE

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

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Order Information

Description/Type	Order no.
Lambda Transmitter LT4 in wall mounting housing	657R54
A 10 – FUNCTION TEST UNIT FTU	Selection
WITHOUT FTU	0
WITH FTU 24 V SUPPLY FROM LT4	FTU-IN
A 20 – OUTPUT/ INPUT	Selection
WITHOUT OUTPUT/INPUT	00
4 ANALOGUE OUTPUTS, CURRENT 0/4 ... 20 mA	05
A 30 – EFFICIENCY CALCULATION	Selection
WITHOUT	00
A 40 – CO₂-MEASURING RANGE	Selection
STANDARD 0 ... 1,000 ppm	1000
Extended 0 ... 10,000 ppm	10000
A 50 – FIELDBUS CONNECTION	Selection
WITHOUT	00
WITH	Probus

Approvals



only for 120 VAC

The information in this publication is subject to technical changes.



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