

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

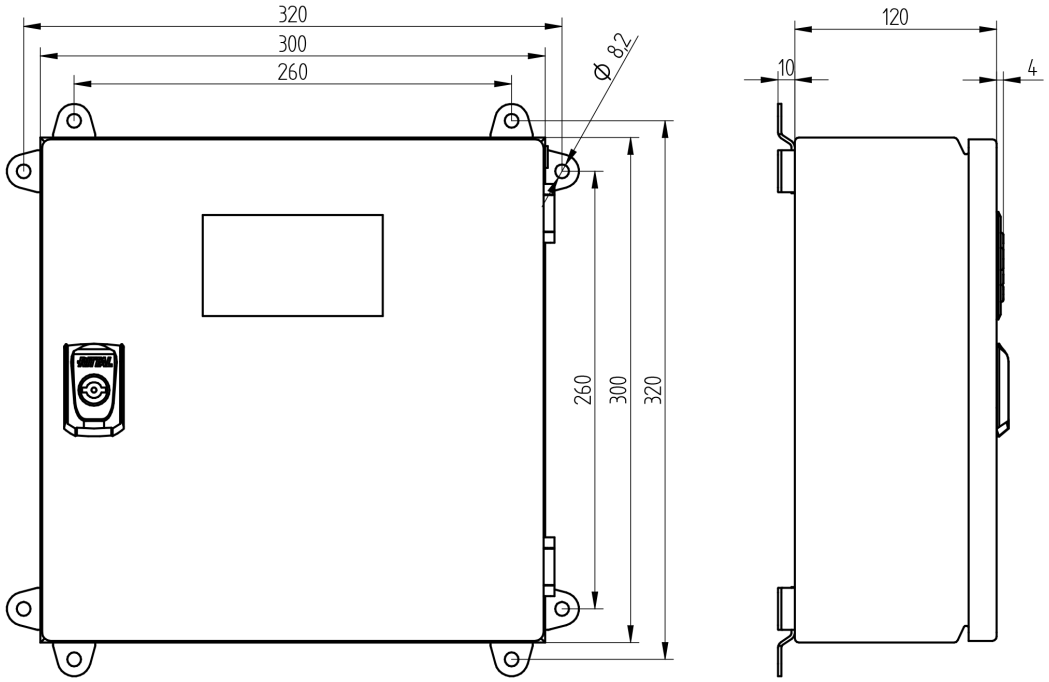


Fig. 2 LT4 dimensional drawing of housing with wall brackets vertical/horizontal

Technical Data Lambda Transmitter LT4

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 Precision: 1 % Load: 150 Ω/output	Analogue output 1 (O_2 measured value) – Setting range: 0 ... 25 % O_2 – 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 based on mV signals from the probe	– 6 safe digital outputs, 24 VDC, floating		
	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

Technical Data Lambda Transmitter LT4

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

LAMTEC SYSTEM BUS (LSB)	
Direct communication with LAMTEC burner control units	Transmission of measured values, warning and fault messages, receiving commands

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)

NOTICE

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

Technical Data Lambda Transmitter LT4

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 – CO_e-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

CE

UL CERTIFIED SAFETY US-CA SÉCURITÉ US-CA MH48669

only for 120 VAC

The information in this publication is subject to technical changes.

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