

Technical Data Lambda Transmitter LT3-F



Fig. 1-1 Housing LT3-F with UI300

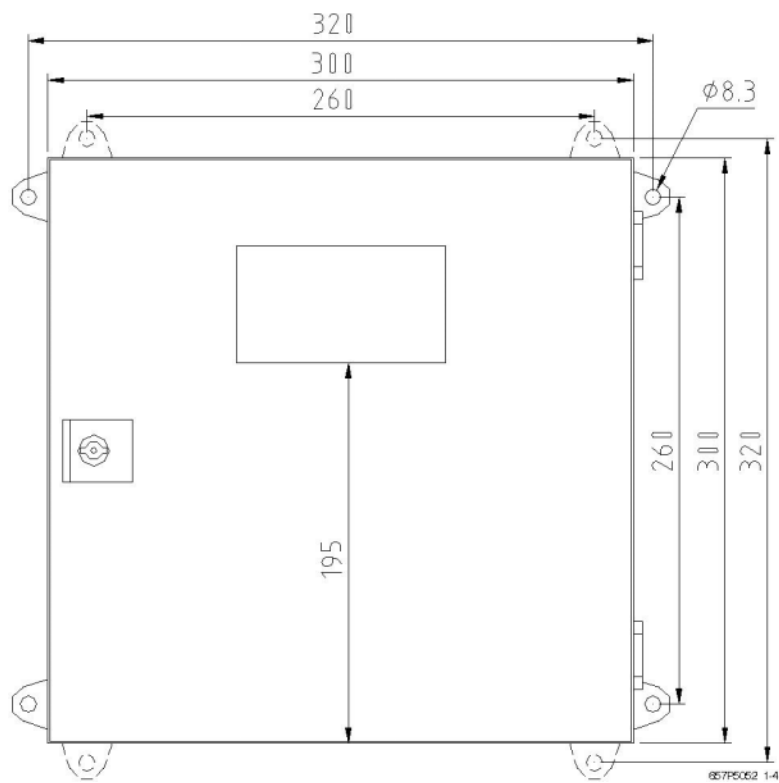


Fig. 1-2 Dimensional drawing of housing with wall brackets vertical/horizontal

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LT3-F at wall mounting housing with User Interface UI300

Housing	Mounting house of sheet steel, powder-coated
Protection class acc.to DIN 40050	IP54 with display in the front door
Dimensions (HxWxD)	300x300x120 mm/11.81"x11.81"x4.72" in
Useful life	10 years
Colour	Light grey RAL 7035
Weight	approx. 6 kg/13.23 lb
Control elements	User Interface UI300 with LCD-Graphic Display 45x27 mm (BxH)/1.77"x1.06" in (WxH) LSB-Remote-Software (Option)
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 KS1D Combination Probe, 60 minutes, otherwise about 10 minutes after MAINS ON
Analogue outputs	Optional
Analogue outputs via additional module Precision: 1% Load: 300 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 Analogue output 2 (CO _e measured value) - Setting range: 0 ... 30,000 ppm - Factory setting: 0 ... 1,000 ppm → 4 ... 20 mA
Digital outputs	Optional
Digital outputs via additional module	- 4 floating contacts no, function adjustable via user interface - Switching voltage max. 250 V - Switching current 6 A, max. 12 A/module
Digital inputs	Optional
Digital inputs via additional module	- 4 digital inputs 24 VDC, floating - Functions can be set via LSB remote software
HART communication	Optional (does not apply to LT3-F)
HART communication via additional module	- 2 analogue outputs 0/4 ... 20 mA for the output of the O ₂ and CO _e - HART communication (read/write) via analogue output 1
Efficiency calculation	Optional
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	Optional
Field bus connection to PROFIBUS DP via additional module	<ul style="list-style-type: none"> - Reading of values, statuses, faults, and warnings - Reset of faults and warnings - Setting of digital outputs
Interfaces	
Interfaces	LAMTEC SYSTEM BUS (LSB)
Operating condition	
Ambient temperature	Operation: -20 °C ... +60 °C/-4 °F ... 140 °F Transport and storage: -20 °C ... +70 °C/-4 °F ... 158 °F
CE Declaration of Conformity	2014/35/EU – Low Voltage Directive 2014/30/EU – EMC Directive 2009/142/EC – Gas Appliance Directive

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Order Information

657R50-	A 10 DISPLAY	A 20 OUT-/INPUTS	A 30 HART- COMMUNICATION	A 40 EFFICIENCY CALCULATION	A 50 FIELD BUS CONNECTION
A 10 – DISPLAY					Selection
WITH USER INTERFACE UI300 IP54 Extended configuration only possible via programming unit or LSB-Remote Software for PC					20
A 20 – OUT-/INPUTS					Selection
WITHOUT OUTPUTS					00
4 ANALOGUE OUTPUTS CURRENT 0/4 ... 20 mA					05
4 ANALOGUE OUTPUTS VOLTAGE 0/2 ... 10 VDC					10
4 DIGITAL OUTPUTS					20
4 DIGITAL INPUTS					25
4 DIGITAL- AND 4 ANALOGUE OUTPUTS CURRENT 0/4 ... 20 mA					30
4 DIGITAL- AND 4 ANALOGUE OUTPUTS VOLTAGE 0/2 ... 10 V					35
4 DIGITAL INPUTS AND 4 ANALOGUE OUTPUTS CURRENT 0/4 ... 20 mA					50
4 DIGITAL INPUTS AND 4 ANALOGUE OUTPUTS VOLTAGE 0/2 ... 10 V					55
4 DIGITAL INPUTS AND 4 DIGITAL- AND 4 ANALOGUE OUTPUTS CURRENT 0/4 ... 20 mA					60
A 30 – HART-COMMUNICATION					Selection
WITHOUT					00
HART-MODULE WITH 2 ANALOGUE OUTPUTS CURRENT 0/4 ... 20 mA HART-COMMUNICATION VIA OUTPUT					01
A 40 – EFFICIENCY CALCULATION					Selection
WITHOUT					00
EFFICIENCY-MODULE WITH 2 Pt100-INPUTS AMBIENT AIR AND FLUE GAS 0 ... 400 °C/32 °F ... 752 °F AND 2 ANALOGUE OUTPUTS, CURRENT 0/4 ... 20 mA					01
A 50 – FIELD BUS CONNECTION					Selection
WITHOUT					00
PROFIBUS DP					01

Approvals



The information in this publication is subject to technical changes.

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