Fig. 1-1 Housing LT3 with UI300

Fig. 1-2 LT3 with additional Display and operating unit

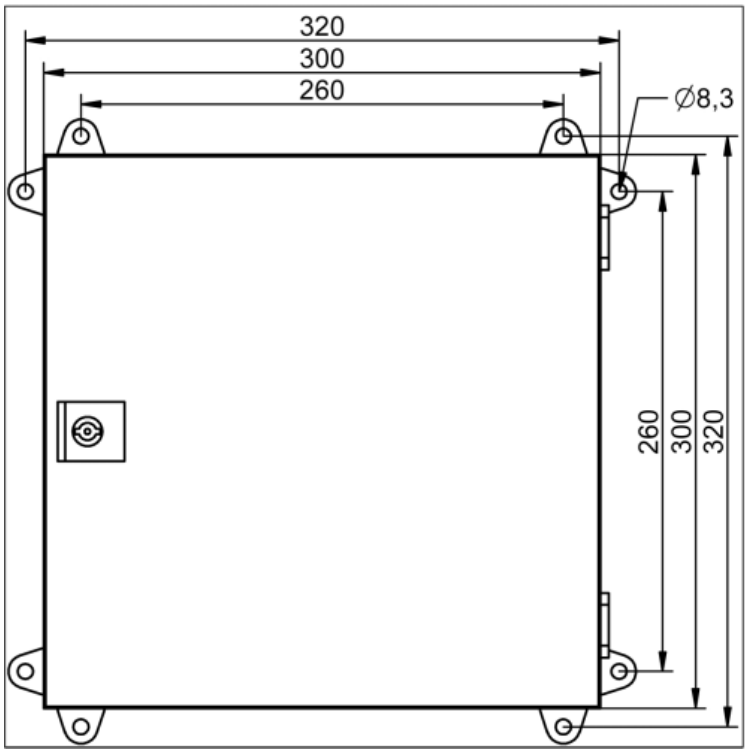

Fig. 1-3 LT3 Dimensional drawing of housing with wall brackets vertical/horizontal

Technical Data Lambda Transmitter LT3

LT3at 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)

LT3 at wall mounting housing with additional display and operating unit IP65	
Housing	Mounting house of sheet steel, powder-coated
Protection class acc.to DIN 40050	IP65 with additional display and operating unit
Dimensions (HxWxD)	300x300x120 mm/11.81"x11.81"x4.72" in
Colour	Light grey RAL 7035
Weight	approx. 6 kg/13.23 lb
Control elements	additional display and operating unit with LCD Graphic display 70x40 mm/2.76"x1.57" in, alternative LSB Remote Software

LT3 without Display/Operating Unit	
Housing	Mounting house of sheet steel, powder-coated
Protection class acc.to DIN 40050	IP66
Dimensions (HxWxD)	300x300x120 mm/11.81"x11.81"x4.72" in
Colour	Light grey RAL 7035
Weight	approx. 6 kg/13.23 lb
Control elements	Operation only possible via LSB Remote Software

Technical Data Lambda Transmitter LT3

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

Field bus connection	**Optional**
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

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

Order Information

657R51 -	A 10 DISPLAY	A 20 OUT-/ INPUTS	A 30 LANGUAGE	A 40 PROBE-TYPE	A 50 HART COMMUNICATION	A 60 EFFICIENCY CALCULATION	A 70 FIELDBUS CONNECTION

A 10 – DISPLAY	**Selection**
WITHOUT DISPLAY IP66	00
WITH EXTENDED OPERATING UNIT IP65 (specify language)	10
WITH USER INTERFACE UI300 IP54 (language neutral)	20

A 20 – OUT-/INPUTS	**Selection**
WITHOUT OUT-/INPUTS	00
4 ANALOGUE OUTPUTS 0/4 ... 20 mA	05
4 ANALOGUE OUTPUTS 0/2 ... 10 V	10
4 DIGITAL OUTPUTS	20
4 DIGITAL INPUTS	25
4 DIGITAL- AND 4 ANALOGUE OUTPUTS 4 ... 20 mA	30
4 DIGITAL- AND 4 ANALOGUE OUTPUTS 0/2 ... 10 V	35
4 DIGITAL INPUTS AND 4 ANALOGUE OUTPUTS 0/4 ... 20 mA	50
4 DIGITAL INPUTS AND 4 ANALOGUE OUTPUTS 0/2 ... 10 V	55
4 DIGITAL INPUTS, 4 DIGITAL- AND 4 ANALOGUE OUTPUTS 0/4 ... 20 mA	60

A 30 – LANGUAGE*	**Selection**
GERMAN	D
ENGLISH	E
FRENCH	F

* only relevant in combination with extended operating unit attribute A10 – selection 10

A 40 – PROBE TYPE	**Selection**
KS1D STANDARD	00
KS1D-EX	01

A 50 – HART COMMUNICATION	**Selection**
WITHOUT	00
HART-MODULE WITH 2 ANALOGUE OUTPUTS 0/4 ... 20 mA HART-COMMUNICATION VIA OUTPUT 1	01

A 60 – 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 0/4 ... 20 mA	01

A 70 – FIELDBUS CONNECTION*	**Selection**
WITHOUT	00
PROFIBUS DP	01

* select “01” if the module should be built-in, otherwise use order no. 657R5950

The information in this publication is subject to technical changes.

LAMTEC Meß- und Regeltechnik für Feuerungen GmbH & Co. KG
Wiesenstraße 6
D-69190 Walldorf
Telefon: +49 (0) 6227 6052-0
Telefax: +49 (0) 6227 6052-57

info@lamtec.de
www.lamtec.de

Print no. DLT3121-16-aEN-008