Technical Data Lambda Transmitter LT3-Ex

Fig. 1 Lambda Transmitter LT3-Ex with junction box

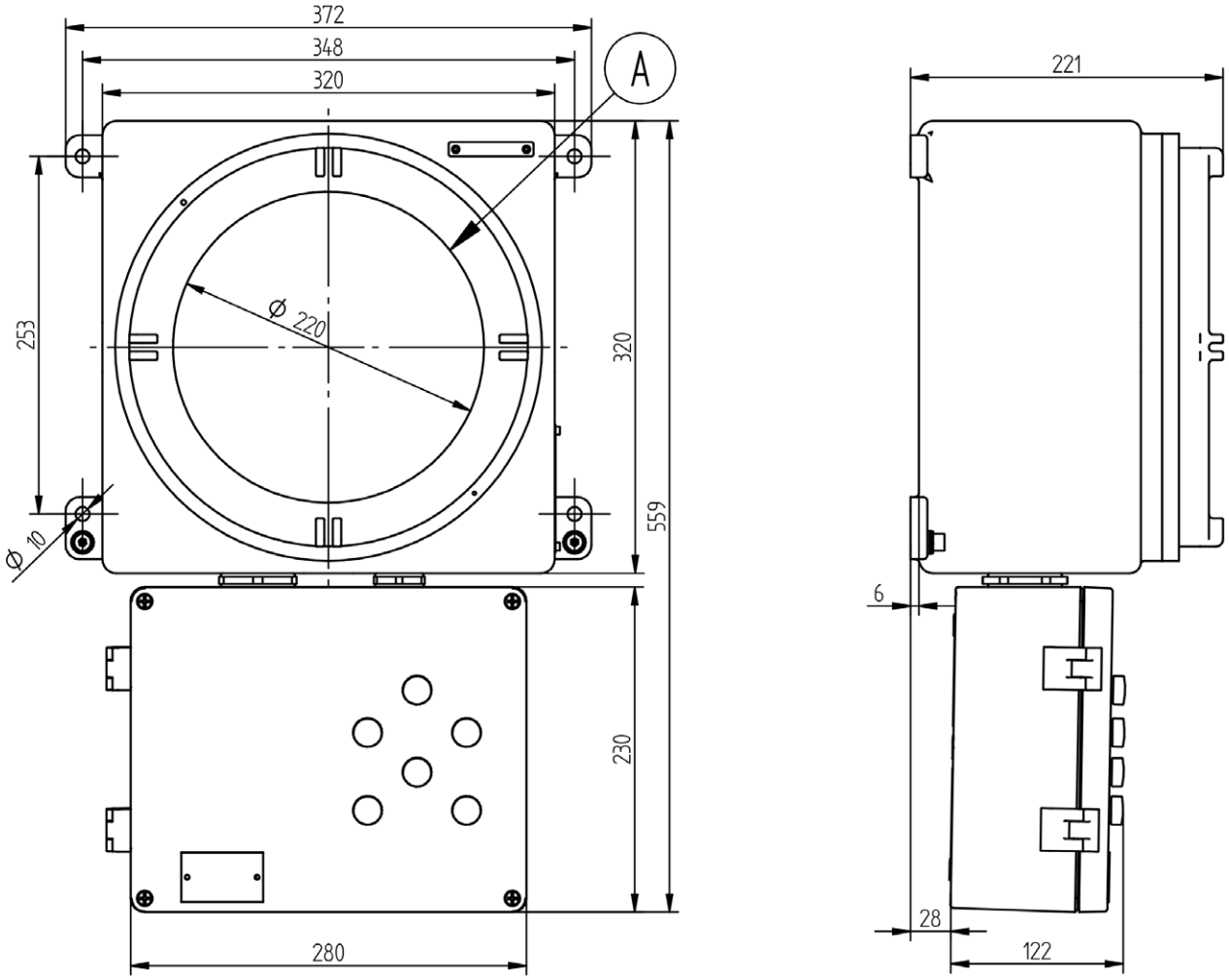

Fig. 2 Dimensional drawing LT3-Ex

Position A Inspection window

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Dimensions	
Housing	Wall mounting housing, grey cast iron
Dimensions (HxWxD)	556x372x221 mm | 21.89"x14.65"x8.7" in
Colour	light grey RAL 7035
Weight	approx. 25 kg | 55.12 lb
Control element	User interface UI300-LT-V2 with LCD graphic display 45x27 mm | 1.77x1.06" in LSB-Remote-Software (Option)

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.

Interfaces

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

Analogue outputs	
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/fault 0 mA Analogue output 2 (CO_e measured value) – Setting range: 0 ... 30,000 ppm – Factory setting: 0 ... 1,000 ppm → 4 ... 20 mA/fault 0 mA

Digital outputs	
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	
Digital inputs via additional module	– 4 digital inputs 24 VDC, floating – Functions can be set via LSB remote software

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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

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

Operating Conditions	
Relative humidity	0 % ... 100 %
Installation height	< 2,000 m | 6,561.68 ft above sea level

Environmental Conditions		
Operation	permissible temperature range	-20 ... +55 °C | -4 ... +131 °F
Transport	permissible temperature range	-20 ... +70 °C | -4 ... +158 °F
Storage	permissible temperature range	-20 ... +70 °C | -4 ... +158 °F
Degree of protection	according DIN 40050	IP66
Ignition degree of protection	Housing with pressure-resistant encapsulation II2G Ex d IIC T5 Gb -20 °C ≤ Ta ≤ +55 °C DEKRA 18ATEX0120X IECEx DEK 18.0076X	
	Junction box with increased safety II2G Ex db eb IIC -20 °C ≤ Ta ≤ +55 °C PTB Atex 1063 X IECEx PTB 08.0006X	
Declaration of conformity	2014/35/EU	Low Voltage Directive
	2014/30/EU	EMC Directive
	2011/65/EU	RoHS Directive

NOTICE

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

Order Information

NOTICE

Configuration for limit value and measured value output according to SIL1 available.

Description/Type	Order no. - Selection
Lambda Transmitter LT3-Ex in wall mounting housing for Ex-area 1 in acc. to ATEX, IP66, Operation via UI300-LT-V2	**657R5140**

only for 120 VAC

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