

# LX 10k



## *Technical datasheet*

- LX navigation -

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Tkalska ulica 10  
SI-3000 Celje  
Tel.: 00 386 3 490 46 70  
Fax.: 00 386 3 490 46 71  
info@lxnavigation.com  
www.lxnavigation.com



# Document information

## 0.1 Abstract

This document represents the technical datasheet for the LX 10k. The user manual, installation manual and additional info can be found on [www.lxnavigation.com](http://www.lxnavigation.com).

## 0.2 Document status

**Document status: PUBLIC**

Document status	Explanation
Internal	Intended only for LX navigation staff
Public	Available publicly to all
Personal	Intended for a specific person and/or company, noted on this page
Dealer	Intended for a specific dealer, noted on this page
Manufacturer	Intended for a specific manufacturer, noted on this page

## 0.3 List of applicable products

Device	HW Version
LX 10k w/ analog indicator	1.0 - 1.7
LX 10k w/ digital indicator	1.0 - 1.7

## 0.4 Revision history

Document name	Document revision	Date	Revised by	Approved by	Notes
LX_10KTD	R1	22.12.2022	A.S.	N.S.	initial release



## Technical specification

Description	Unit	Digital vario		Analog vario
		Main unit	indicator	indicator
Width	[mm]	82.3	62.2	60.3
Height	[mm]	82.3	62.2	60.3
Depth	[mm]	69.0	66.9	47.1
Mounting Panel Cutout	[mm]	80.0	57.0	57.0
Depth Behind Panel without Connectors	[mm]	65.3	64.5	45.3
Depth In Front of Panel	[mm]	16.8	18.6	15.6
Mass	[g]	313	201	142
Power supply	[V DC]	9 - 29	9 - 29	9 - 20
Nominal Voltage	[V DC]		13.8	
Average Power Consumption	[W]		1.8	
Ground Survival Temperature	[°C]		-55 - +85	
Operating Temperature	[°C]		-20 - +55	
Relative Humidity	[%]		0 - 98	
Max. Operational Altitude	[ft]		45,000	
Operational Shock			6 g	
Crash Safety Shock			20 g	
Vibration			DO-160D U F/F1	
WiFi range	[m]		100	
Bluetooth range	[m]		20	

## Environmental data

Description	Section	Category	Conditions
Temperature / Altitude	4.0	D1	
Low Ground Survival Temperature	4.5.1	D1	-55 °C
Low Operating Temperature	4.5.1	D1	-40 °C
High Ground Survival Temperature	4.5.2	D1	+85 °C
High Short Time Operating Temperature	4.5.2	D1	+70 °C
High Operating Temperature	4.5.3	D1	+55 °C
In Flight Loss of Cooling	4.5.4	Z	No auxiliary cooling required
Altitude	4.6.1	D1	45,000 ft
Temperature Variation	5.0	B	
Humidity	6.0	A	
Shock	7.0	B	
Vibration	8.0	U/U2	Vibration curve F/F1 (robust vibration, helicopter)
Explosion Proofness	9.0	X	not tested
Water Proofness	10.0	X	not tested
Fluids Susceptibilities	11.0	X	not tested
Sand and Dust	12.0	X	not tested
Fungus Resistance	13.0	X	not tested
Salt Spray	14.0	X	not tested
Magnetic Effect	15.0	Z	less than 0.3m
Power Input (DC)	16.0	B	
Voltage Spike Conducted	17.0	B	
Audio Frequency Conducted Susceptibility	18.0	B	
Induced Signal Susceptibility	19.0	X	not tested
Radio Frequency Susceptibility	20.0	T	Radiated Susceptibility T
Conducted Susceptibility Emission of RF	21.0	M	Except intended operating frequencies (2.4/5 GHz)
Lightning Induced Transient Susceptibility	22.0	A2XXX	
Lightning Direct Effects	23.0	X	not tested
Icing	24.0	X	not tested
Electrostatic Discharge (ESD)	25.0	A	
Fire, Flammability	26.0	X	enclosure made of aluminum (Al) sheet

Environmental tests are performed in accordance with RTCA DO-160.

# Conformity

Declaration of CE Conformity

## Identification of product

LX 10k (all variants)

## Manufacturer

LX navigation d.o.o.  
Tkalska ulica 10  
SI-3000 Celje  
Slovenia

## Related standards

EMC directive 2004/108/EC

This product is designed to comply with standards/regulations and technical specifications stated above. This certificate is granted subject to the LX navigation quality rules on product certification.

## Remark

The product is designed to comply with LX navigation standards and standards harmonized with directive 2004/108/EC: EN 55022:1998+A1:2000+A2:2003, class A; EN 55024:1998+A1:2001+A2:2003; EN 61000-3-2:2000+A2:2005; EN61000-3-3:1995+A1:2001+A2:2005

# Contact

## Headquarters

LX navigation d.o.o.  
Tkalska ulica 10  
SI-3000 Celje  
Slovenia

## VAT ID

Company is registered in Slovenia,  
EU under the VAT ID: SI40539601

## Webpage

[www.lxnavigation.com](http://www.lxnavigation.com)

## Phone

+386 (0)3 490 46 70

## Fax

+386 (0)3 490 46 71

## Sales

[sales@lxnavigation.com](mailto:sales@lxnavigation.com)

## Support

[info@lxnavigation.com](mailto:info@lxnavigation.com)