

# duraSign Pad 5.0

## Technical data sheet



**The new 5-inch signature pad with tempered glass surface for maximum durability**

for stationary use

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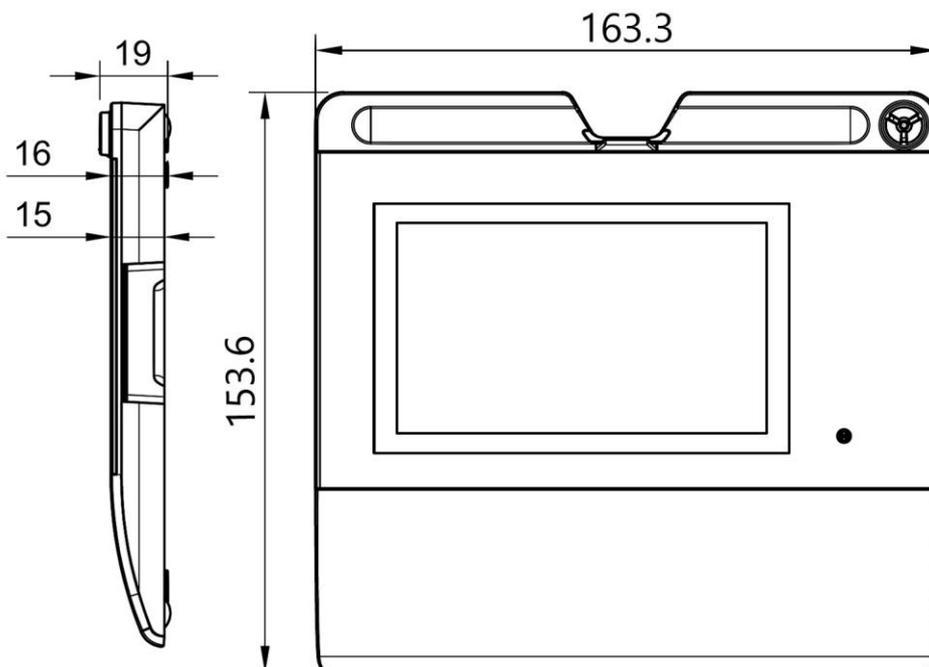


### GENERAL

Manufacturer	StepOver GmbH	StepOver GmbH Otto-Hirsch-Brücken 17 address 70329 Stuttgart Germany
Country of origin	Country where development, manufacturing and quality assurance takes place.	Made in Germany
Order number	GTIN item number	GTIN 4260130061463
Order number with 3 years warranty and barcode	GTIN item number	GTIN 4260130061647
Traceability/ serial number	Each signature pad of this type has been given a unique serial number. The serial number can be accessed from the device's firmware and read on the display after powered on. Optionally, for projects involving over 500 units, the serial number can be added to the back of the device in digits and as a bar code (subject to cost).	Code 39 barcode type (Optional / Subject to surcharge - Only when ordered ex-works)

### DIMENSION / HOUSING / COMPOSITION

Material	Housing	PC/ABS
Width	Housing	16.3 cm
Depth	Housing	15.4 cm
Height	Housing	1.9 cm
Weight	Signature pad without USB cable.	300 grams
Cover lens	Chemically tempered glass over the display.	



# duraSign Pad 5.0

## Technical Data Sheet



### PEN

Pen type	duraPen (electro-magnetic pen; battery-free).	duraPen 1
Pen force resistance	Max. force that may be applied to the pen tip.	8 Newtons
Pen attachment	Textile cord affixed to the housing. Pen is easy to replace, with no tools required.	

### DISPLAY

Display type	Colour display TFT	64k colours
Width	Active area – display	10.8 cm
Depth	Active area – display	6.5 cm
Display brightness	Values of display brightness	Max. 245 cd/m <sup>2</sup>

X- and Y- resolution of the integrated colour screen:

**Note:**

The pad screen displays the signature in real time and can be used to display texts, documents, and virtual buttons.

Display		800 x 480 pixels
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The LED backlight has an expected lifespan of 20,000 operating hours. The screen can be switched off and on again via software (recommended if the device is also connected to a switched-on computer outside of working hours e.g. to a computer running 24/7).

Horizontal viewing angle	Left side / right side	min 60° - typically 70°
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Vertical viewing angle	Front / Opposite position	min 60° - typically 70° / min 45° - typically 50°
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**Standby mode:** If the customer has not loaded a slide show onto the signature pad, the standby mode will display the serial number, FW version, manufacturer logo and additional information.



**Optional slide show:** In standby mode, advertising images (slide show) can be displayed. The signature pad also has an internal memory for at least four exchangeable advertising images. The advertising images/slide show images can be loaded and changed by the customer.

Standard image resources



**Standard signature mode:** The background images (information section above and capture section below) can be changed by the customer. Backgrounds are loaded onto the signature pad as standard (see image left). The text in the information section at the top can be adapted dynamically using the signature software. A bar listing available functions is displayed on the right.



**Signing in the document:** The section of the document around the signature field is displayed in the main field. A bar listing available functions is displayed on the right-hand side of the screen.



**Document view:** In document view mode, users can view a multiple-page document. A function bar located on the right-hand side assists navigation.

The documents, signatures and advertisement images seen here are merely for illustration purposes.

# duraSign Pad 5.0

## Technical Data Sheet



### SIGNATURE CAPTURE

Sensor type	Sensor type to capture signature data.	ERT	ERT sensor
Sensor durability	Max. number of signatures possible (with different pens, if necessary).	> 30 million	signatures
Sensor material	Glass in the capture section with ERT sensor situated underneath.	Chemically tempered glass	surface material
Width	Active area ERT sensor	10.8	cm
Depth	Active area ERT sensor	6.5	cm
Resolution	Resolution of captured X- and Y- coordinates (without interpolation/ without adding some coordinates to other).	X=3700 Y=3700	DPI/LPI
Accuracy of repetition	Accuracy of repetition of X-Y measurements.	+/- 0.5	mm
Temporal resolution output	Groups of 4D coordinates (Each group consists of X, Y, pressure and time).	500	output per second
Measurement of pressure	Maximum number of differentiated pressure levels.	1024	pressure levels
Minimum force	Lowest measurable writing force.	Approx. 0.5	Newtons
Maximum force	Highest measurable writing force.	Approx. 8	Newtons

### SAFETY

Protection of biometric data	Patented encryption method with RSA public key safely stored in the signature pad and RSA Private Key safely stored with a notary for decryption in case of dispute.		
Encryption algorithms and Signature algorithms	Name of the standard cryptographic algorithms used, which are used for encryption purposes in the pad.	Up to RSA 4096 bit, AES 256 bit, SHA 256 bit,	
Data communication between ERT sensor and main circuit board	Data transmission between the ERT sensor and the main board is encrypted using AES-256 encryption. Before each signature, a new, randomly generated key is transmitted to the sensor via a secure channel. This ensures that the biometric data of the signature is individually encrypted and effectively protected against eavesdropping and replay attacks. The opening detection required in previous models is therefore no longer necessary.	AES 256 bit	encryption
Kensington Slot anti-theft system	The back of the housing has a standard Kensington Security Slot. This slot is suitable for normal Kensington locks (T-Bar) and flat Click Safe Kensington locks (e.g. model K64637WW with T-Bar).  Inside, the slot is reinforced with a metal plate. Only mild/moderate force should be applied to the Click Safe Security Anchor, otherwise the housing may crack.	Slot for Kensington locks	
Date stamp (optional)	The UTC/GMT date stamp must be requested when placing your order (subject to cost). It cannot be activated retrospectively, as it requires an internal battery which supplies an internal pad clock with power. The date stamp may deviate by one day per year.	Optional function	subject to surcharge – Only when ordered ex-works.

### SYSTEM REQUIREMENTS

Operating System	It is not necessary to install a driver.		
Software compatibility for 2048 bit encryption	In order to make full use of this product, you will need a version of the following software that has, at the minimum, the same version number or higher.	eSignatureOffice from version 5.9 SimpleSigner from version 7.0 Device API from version 5.9	
Software compatibility >2048 bit encryption	Warning: To use with >2048 bit key lengths, you will require the following software versions at the minimum.	eSignatureOffice from version 6.2 SimpleSigner from version 7.1 Device API from version 6.2 Signature API from version 4.13	

# duraSign Pad 5.0

## Technical Data Sheet



### CONNECTIVITY / POWER SUPPLY

USB-C cable	USB-C to USB-C, also USB-A via included adapter (USB-A male to USB-C female)	Length	2 meters
Accessories included	Standard accessories	USB-C cable USB-A plug to USB-C socket adapter, Multi-lingual, operating manual	per 1 unit
Power consumption	Maximum power consumption	2.3	Watt (460 mA)
Connectivity	Encrypted HID. This device does not require any hardware drivers; it is recognized by Windows/Linux directly as a mouse or keyboard. Can be switched to serial transmission via USB (including for port forwarding at the Thin Client). Driver for Windows, Windows Embedded and Win CE available as optional. Also compatible with Linux and Thin-OS.	USB-HID	USB 2.0 device

### OTHER FEATURES

Operating temperature	Temperatures at which the pad can function according to what is specified here.	0 to +50	°C   With a max. of 90% RH without condensation
Storage temperature	Temperatures at which the device can be transported and stored.	-10 to +70	°C   With a max. of 90% RH without Condensation
	Storage temperature for the electronic pen (duraPen 1).	-20 to +70	°C   With a max. of 65% RH without condensation
	Recommended storage temperature for the set.	-20 to +65	°C   With a max. of 95% RH without condensation
Conformity	Certifications / approvals	CE, UKCA, WEE, RoHS	
		Quality assurance measures per device	QA tests of all devices. Test protocols are linked to the serial number of the device and the coded initials of the person who carried out the tests. They can be sent to the customer via email upon request, free of charge.
General quality assurance measures	Selection of component suppliers and standardised, documented production processes. StepOver GmbH works exclusively with ISO-certified component suppliers, and works in line with ISO regulations	EN ISO 9000 ff	
Recycling	Most of this product can be recycled. Components such as the housing, etc. are labelled with information about the materials used.	WEE registration no.	DE 27870259
Environmental protection	For every signature pad sold, StepOver makes a donation to promote the planting of new trees. As of 2023, a total of 1.85 million m <sup>2</sup> has been planted in several projects across the world!	CO2-neutral product	
Drilling jig	The device has two screw holes on the back for desktop or wall assembly.	Dimensions can be found on the StepOver Website	<a href="#">Download PDF document</a>

# duraSign Pad 5.0

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### IMPORTANT INFORMATION:

This product is protected by national and international property rights and patents.

We reserve the right to make technical modifications designed to improve this product.

All hardware and software names employed are registered trade names and/or trademarks of the respective manufacturer/owner. The content and structure of this documentation are protected by copyright. The reproduction of information or data, particularly text, sections of text and images, requires the prior consent of StepOver GmbH.

The safety and operating instructions provided in the operating manual must be observed. You will find an electronic operating manual online at: [www.StepOverInfo.net/MAN](http://www.StepOverInfo.net/MAN)

This product is not intended for import, distribution or use in the USA. Please contact StepOver International GmbH regarding products for the US market.

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