

naturaSign Pad Technical Information

Characteristics:



At just one centimetre tall, the naturaSign Pad is currently the thinnest LCD sign pad on the global market. Thanks to its flat construction, offset sensor surface and lower placement of the screen, and the “turn” button, with which the sign pad, and with it the surface for resting your hand, can be rotated through 180°, so for the first time left-handed as well as right-handed people can find the optimum position for writing: just like writing on a notebook.

The integrated LCD screen shows the signature in real time and can be used to view texts, graphics, parts of a document and interactive buttons.

The naturaSign Pad has a holder in the side for secure storage of the pen during transport, as well as another, vertical holder for when the pad is in use. The pen is held on a chord. The transfer of data is encrypted using a crypto-algorithm that is considered very secure (AES 256). With Windows 2000, XP, Vista, or Linux, it is not necessary to install a driver. The real time internal clock (tamper-proof) gives each captured signature a GMT time stamp. The status lights and the screen show the status of the device (off: not connected; orange: ready; green: capturing signature).

The device has two holes in the back that enable it to be fixed to a desk or wall. The accessories for mounting it are sold separately.

In cooperation with the international ecological organisation PrimaKlima Weltweit e.V., for each pad sold we plant an area of approximately 10m² with trees.

Technical data:

Description	Referring to	Value	Measurement
Material	Casing	Polycarbonate	-
Width	Casing	15	cm.
Depth	Casing	12	cm.
Height	Casing	1	cm.
Width	Surface area of sensor and screen	10	cm.
Depth	Surface area of sensor and screen	2.9	cm.
Height	Active surface area	9.8	cm.
Depth	Active surface	2.6	cm.
Length	Mini USB to USB cable	180	cm.
Weight	Sign pad without cable	170	grams
Temporal Definition emitted/real	Groups of 4D coordinates (Each group is made up of the coordinates X, Y, pressure and time)	500	Emissions per second
Temporal definition of the measurement	Internal Reporting rate (samples)	7000	Reporting rate 4D samples/sec (super sample 14 x (14 times greater))
Optical definition emitted/real	Definition of the captured X and Y coordinates (without adding some coordinates to other/without interpolation)	800	DPI
Accuracy of repetition	Accuracy of repetition in X,Y measurements	99.9	%
Screen definition	Definition of X and Y of the incorporated transflexive LCD graphic (matrix). Warning The screen on the pad shows the signature in real time and can be used to display texts and virtual surfaces.	240 x 64	pixels
Development of pressure	Capturing pressure	255	Levels of pressure
Minimum pressure	Minimum pressure that can be measured	1	Newton
Maximum pressure	Maximum pressure that can be measured	10	Newton
Connection	Standard Mini-USB	Plug	-
Energy Use	The low energy use protects the environment and prolongs battery life in laptops.	>100	mAh

Assistance for USB hibernation.	Not all computers or laptops deactivate the power in the USB ports when they hibernate. Because of this, only those external devices that transmit the computer's hibernation warnings and can turn themselves off actually help to save energy.	yes	Turns off screen, status lights, etc.
Type of transmission	HID encrypted with individual key and authorisation function. This device does not require a driver. It is recognised directly by Windows or Linux like a mouse or keyboard.	USB/HID	USB 2.0 (USB 1.1 compatible)
Encryption Algorithm	Name of the standard cryptographic algorithm used for the transfer of data	AES 256	-
Margin for error in time	The margin for error in the real time internal clock	approx. 9	Min./ year
Working temperature	Temperatures at which the pad will function according to what is specified here	-5 to +60	°C with a max. of 90% RH without condensation.
Storage temperature	Temperatures at which the device can be transported and stored.	-10 to +80	°C with a max. of 90% RH without condensation.
Battery Autonomy	Autonomy of the battery for the real time internal clock.	5	Years
Meets	Certificates	CE, FCC, secAsym, WEE	-
Quality control measures for each device	Quality control and safety tests for all devices. The test protocols are linked to the serial number of the device and the name of the person who carried out the tests, and are available, free of charge, for our clients on request.	Testing of each device: Operation and margin for error in measurements	1/1
Quality control measures, random testing	Random testing to ensure reliable quality in diverse situations.	Verification by a graphologist and external testing of the measurements	1/5000
General quality control measures	Selection of component providers and documented production cycles.	StepOver GmbH only works with ISO certificated providers and works according to ISO regulations.	EN ISO 9000 ff
Identification / serial number	Each sign pad of this type has a unique serial number. The serial number can be found as a number and a bar code on the base of the device. The serial number can also be obtained from the device's firmware.	Bar code type	Code 39
Recycling	This product can be almost entirely recycled. The parts, such as the casing, etc. are marked with information about the materials used.	RAEE Registration Number	DE 27870259
Protecting the environment	The use of the sign pad saves paper. In cooperation with the international ecological organisation PrimaKlima Weltweit e.V. We also plant an area of approximately 10m ² with trees for every sign pad of this type sold.	CO2 Neutral emissions	-
Country in which it is produced	Country in which the development, manufacture and quality control takes place.	Germany	Made in Germany
Accessories included	Standard Accessories.	Connection Cable, Instructions in various languages	1x
Order number	EAN article number	EAN	4260130060237

Important:

This product is protected by property rights and national and international patents.
The right to make technical changes that improve the device's performance is reserved.
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