

# signotec Pad Sigma

## LCD Signature Tablet with backlight option

Description and data sheet



For More Information:

**UniLink**

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

800.666.2980

[Sales@UniLinkinc.com](mailto:Sales@UniLinkinc.com)

**MADE  
IN  
GERMANY**  
Quality • Security • Ecology

Version: 3.6  
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## HIGHLIGHTS

- Affordable, monochrome LCD signature tablet.
- Ultra-slim design – only 1 cm thick.
- Very flat surface with no depressions or edges.
- Suitable for desk-bound and mobile use due to compact size.
- High-resolution display with luminous text and graphics.
- **Available with backlight option.**
- No special pen required.
- USB-Cable is firmly linked with the pad, no susceptible connector.
- Extremely durable and robust.
- Outstanding technical data for digitising signatures.
- High security thanks to protected data transfer.
- **The Sigma-Pad comes bundled with our software package (signoPAD-API) free of charge.**
- Customers can choose the colour for the pad's housing and have their logos printed on the pads.
- Thanks to its special surface structure, signotec's unrivalled robust sensor makes the user feel that they are genuinely writing – on paper.
- **Unique RSA-Signing and Security Features inside the pad!**



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- HID USB - no driver installation necessary.
- Optional internal USB to serial converter for Terminal Server Support
- Automatic pad identification.
- Control of two LEDs at the front.
- Signature input area can be defined and deleted.
- Buttons can be defined, queried and cancelled on the display.
- Display graphics on the LCD.
- The application interface version is retrievable.
- The model number and firmware version of the pad can also be retrieved.
- Output of 500 samples per second of X, Y, time and print coordinates.
- Auto power-off with relevant signal on USB bus.
- Signature display in real time.
- Power is supplied via USB with no power supply unit.

## TECHNICAL DATA

### Dimensions

Thickness	10 mm
Height	160 mm
Width	120 mm

### Display

Type	4" (10,5 cm), monochrome with backlight option
Resolution	320 x 160 pixels
Pixel size	0.275 mm
Visible area	95 x 47 mm

### Sensor

Active signing area	95 x 47 mm
Linearity	+/- 1.5 % in x, y and z direction
Input method	Special sensor for pen input. No errors caused by touching surface with the hand.
Surface	Special surface with wear protection.
Pressure sensor unit	1024 pressure stages
Pen	No special pen - cheap replacement. Vertical penholder is not included!
Writing sensation	Special surface structure makes the user feel that they are genuinely writing – on paper

### Electronics/Digitisation

Output rate of coordinates	500 4D samples (comprising x, y, time and pressure coordinates) per second
Internal sampling rate	6000 samples per second
Resolution	1040 dpi
USB port	HID USB 2.0 full-speed mode (12 Mbps), downward compatible
Serial port	Optional via internal virtual serial COM port
USB standby support	Yes, when relevant signal is present the device is switched off.
Driver	Not necessary for HID USB. Only for virtual serial port.
Software	Includes communication interface for programming.
Data transfer	Secure data transfer between PC and pad.
Serial number	Unique and retrievable internal serial number
Firmware	Version can be retrieved via software
Status display	2 coloured and freely programmable LEDs
Power consumption	Suspended mode: < 500 $\mu$ A, activated without BL: 45 mA, with BL 165 mA.
Plug'n'Play	Yes, for both connection types (HID and virtual serial)
Read protection of firmware	Yes, Flash memory is protected against readout

### Miscellaneous

Cable port	USB
Cable length	1.5 m, 5 m or 0,2 m
Weight	200 gr.
Pen attachment	Highly flexible, textile tether
Certifications and standards	TÜV, CE, DIN EN 60950-1, DIN EN 61000-6-1, DIN EN 61000-6-3
RoHS	RoHS compliant
Tamper-proof closure	Housing can be optionally glued
Container	Protective case, supplied in cardboard packaging.
Bar code	A bar code with a serial number is located on the device and the cardboard box
Operating System	Windows XP, Vista, Win7, Server 2003, 2008, 32 and 64-Bit. Terminal Server. Linux.

### Operating and storage conditions

Operating temperature	- 10 °C to + 60° C
Storage temperature	- 25° C to + 70° C
Max. humidity for operation and storage	<= 90% non-condensing
Air pressure for operation and storage	> 700 hPa

### Reliability/Quality assurance

Quality tests	Individual testing of devices with test log
High temperature test of the components	240 hours at 80° C
Low temperature test of the components	240 hours at - 40° C
Humidity test of the components	240 hours at 60° C and 90% humidity
Thermal shock test of the components	30 minutes at - 40° C and 30 minutes at + 80° C (10x in succession)

### Product Numbers Sigma

Sigma with HID USB - 1,7 m cable	ST-ME105-2-U100
Sigma with virt. COM port via USB - 1,7 m cable	ST-ME105-2-FT100

Sigma with HID USB - 5 m cable	ST-ME105-5-U100
Sigma with virt. COM port via USB - 5 m cable	ST-ME105-5-FT100

### Product Numbers Sigma with BackLight

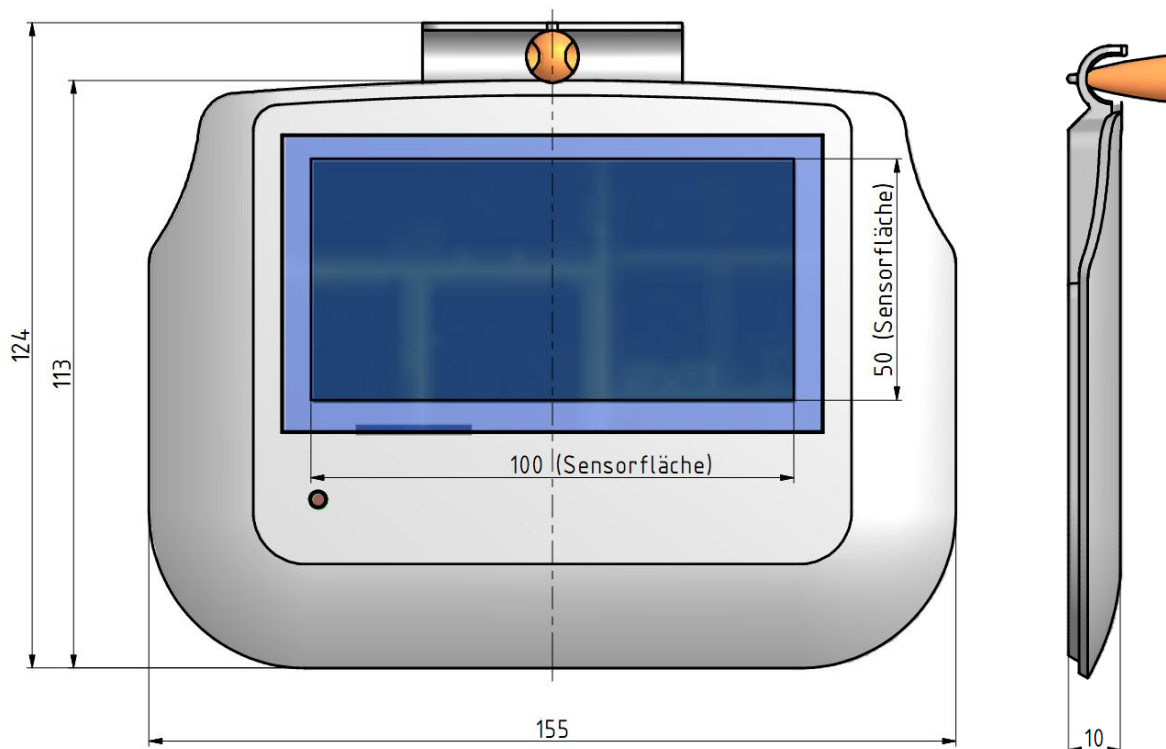
Sigma with HID USB - 1,7 m cable	ST-BE105-2-U100
Sigma with virt. COM port via USB - 1,7 m cable	ST-BE105-2-FT100

Sigma with HID USB - 5 m cable	ST-BE105-5-U100
Sigma with virt. COM port via USB - 5 m cable	ST-BE105-5-FT100

#### Order number description:

ST	Manufacture (signotec)
M	Monochrome
B	Monochrome display with BackLight
E	Encryption option
105	Sensor size (10 x 5 cm)
2(5)	USB cable length (2 or 5 meter)
U	HID-USB
FT	Internal Virtual Com Port Converter (USB2Serial)
100	Standard Colour regarding the overlay and housing (other numbers for customer specific versions)

#### Dimensions in Millimeter:



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