

POS Touchscreen BA82

Multifunctional 12.1" TFT screen
for modern POS applications

The **BA82** is a 12.1" TFT touchscreen designed specifically for applications at the point of sale. The BA82 embodies rugged technology in an appealing look. The screen is the central point for input at state-of-the-art POS systems that make use of touchscreen technology. Touch-based applications have become increasingly established at the POS since they ensure quick familiarization by operators and usually dispense with the need for a keyboard and mouse.

The **BA82** can be run on Wincor Nixdorf BEETLE systems, other vendors' POS systems and even on PCs. It is supplied with power directly from the BEETLE via a PoweredUSB line that is also used for sending all data except the video signal, which is transmitted either by DVI or VGA. If the BA82 is to be run on a POS system that does not have PoweredUSB, an external power supply unit, which can be ordered as an option, is used. The data is then transferred separately via a standard USB connection.

A **USB hub** integrated in the BA82 means this interface can be used not just for internal devices such as the touch controller and stereo loudspeakers, but also for optionally connecting further peripherals to the screen. For this reason it also offers up to two freely accessible USB ports.

The **touchscreen's** functionality and efficiency can be enhanced with screen peripherals such as a programmable magnetic card reader or a programmable keyboard, optionally with MSR.



In order to meet all the requirements of retailing, hospitality, service stations, postal solutions and lottery solutions, the BA82 is offered either with tried-and-tested capacitive touch technology or innovative infrared touch technology. There is also a model of the BA82 available without a touchscreen for use as a customer display.

The **BA82** has a small footprint at the POS, yet offers maximum stability for touch applications. The connection cables are especially secured at the stand, offering additional strain relief and a neater appearance. As an alternative to

the stand, the BA82 can also be fixed in place using its VESA 75 and VESA 100 mounting holes with a pole mount accessory. The BA82 can also be mounted on the back side of a BA83 as dual screen solution. The screen has two security slots to allow the use of a Kensington lock to prevent theft. The screen's main parameters are set using control keys at the device's front with an on-screen display (OSD).

If the store doesn't want any settings, the OSD can also be optionally deactivated. The screen is particularly flicker-free and low-radiation.

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The BA82 has been awarded the GS sign for "Tested Safety" and complies with the requirements for ergonomics stipulated by ISO 13406-2.

Thanks to its low power consumption during operation and in standby mode, the screen also makes a major contribution to reducing the POS solution's TCO and its environmental impact. If the BA82 is connected to a BEETLE system that also supports hibernate mode, the POS system can be put into this mode using the screen's on/off switch. This further power-saving feature is of particular interest if the central unit is installed in the checkout desk in such a way that it is difficult to access.

TECHNICAL DATA

DIMENSIONS

- Diagonal: 12.1" (30.7 cm)
- Active screen area (horizontal x vertical): 246 mm x 184 mm
- Screen housing: 312 x 304 x 87 mm

WEIGHT

- Without stand: 3.3 kg
- With stand: 4.5 kg

ENVIRONMENTAL CLASS

- IEC 721 3/3 Class 3K3

OPERATING TEMPERATURE

- +5°C - +40° C

HUMIDITY

- 5% - 85%
- Absolute humidity 1 g/m³ - 25 g/m³
- Condensation is not permissible

FREQUENCIES

- Horizontal: 37.9 KHz
- Vertical: 60 Hz

RESOLUTIONS

- 800 x 600 pixels
- Color depth: Up to 262,144 pixels

INTERFACES

- PoweredUSB, USB, remote
- DVI-I (DVI+VGA)

READING ANGLE

- Right/left: +/- 70°
- Top/bottom: 50° / 60°

POWER CONSUMPTION

- Typical: <9 W
- Standby: <3 W
- Soft off: <2 W

OPTION NON TOUCH

- Brightness: Typ. 350 cd/m²

OPTION-CAPACITIVE TOUCH SCREEN RESOLUTIONS

- 2048 x 2048 pixels
- Analog capacitive
- Non-reflective (capacitive)
- Brightness: Typ. 290 cd/m²
- USB-internal

OPTION-INFRARED TOUCH SCREEN RESOLUTIONS

- 4096 x 4096 pixels
- Infrared touch
- Non-reflective
- Brightness: Typ. 310 cd/m²
- USB-internal

OPTION-KEYBOARD MODULE

- HID 1.1 (Human Interface Device)
- USB A (USB 2.0 compliant)-internal
- 32 keys, freely programmable
- Option-MSR/keyboard module
number of tracks: Up to 3
- Encoding of the magnetic cards:
In accordance with ISO 7811-2
- Read rate: 10 to 140 cm/s
- Height: 179 mm
- Width: (mounted on screen) 140 mm
- Depth: 40 mm
- Weight: approx. 800g

OPTION-MSR MODULE

- USB A (USB 2.0 compliant)-internal
- Protocol: HID 1.1 (Human Interface Device)
- Number of tracks: Up to 3
- Encoding of the magnetic cards: In accordance with ISO 7811-2
- Read rate: 10 to 140 cm/s
- Height: 179 mm
- Width: 51 mm



BA82 with integrated magnetic card reader



BA82 with integrated keyboard and magnetic card reader

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