WINCOR NIXDORF

POS touchscreen BA83

Multifunctional 15″ TFT screen for modern POS applications

The BA83 is a 15″ TFT touchscreen designed specifically for applications at the point of sale. The BA83 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 BA83 can be run on Wincor Nixdorf BEETLE systems, other vendors' POS systems and even on PCs. A separate power supply unit for operating the screen is not necessary if it is run on a BEETLE POS system. It is supplied with power directly from the BEETLE via the powered USB line that is also used for sending all data except the video signal, which is transmitted either by DVI or VGA.
If the BA83 is to be run on a POS system that does not have a powered USB, 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 BA83 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 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 BA83 is offered either with tried-and-tested capacitive touch technology or innovative infrared touch technology.

The BA83's stand only 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 BA83 can also be fixed in place using its VESA 75 and VESA 100 mounting holes. 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 or 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. The BA83 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

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reducing its environmental impact. If the BA83 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 15" (38.1 cm)
- Active screen area (horizontal x vertical) 304 mm x 228 mm
- Screen housing 368 x 300 x 90 mm

WEIGHT
- Without stand: 4.2 kg
- With stand: 6.4 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 (KHz) 48,3
- Vertical (Hz) 60

RESOLUTIONS
- 1024 x 768 Pixel
- Color depth up to 16 million pixels

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

READING ANGLE
- Right/left: +/- 60°
- Top/bottom: 45°/55°

BRIGHTNESS
- Typ. 250 cd/m²

OPTION– CAPACITIVE TOUCH SCREEN

RESOLUTIONS
- 999 x 999 pixels

TECHNOLOGY
- Analog capacitive

SURFACE
- Non-reflective (capacitive)

BRIGHTNESS
- Typ. 200 cd/m²

DATA TRANSFER
- USB – internal

OPTION– INFRARED TOUCH SCREEN

RESOLUTIONS
- 4096 x 4096 pixels

TECHNOLOGY
- Infrared touch

SURFACE
- Non-reflective

BRIGHTNESS
- Typ. 220 cd/m²

DATA TRANSFER
- USB – internal

OPTION–KEYBOARD MODULE

PROTOCOL
- HID 1.1 (Human Interface Device)

CONNECTION
- USB A (USB 2.0 compliant) – internal

KEYBOARD
- 32 keys, freely programmable

DIMENSIONS
- Height 79 mm
- Width (mounted on the screen) 140 mm
- Depth 40 mm

WEIGHT
- Approx. 800g

OPTION–MSRIM KEYBOARD MODULE

NUMBER OF TRACKS
- Up to 3

ENCODING OF THE MAGNETIC CARDS
- In accordance with ISO 7811-2

READ RATE
- 10 bis 140 cm/sec.

OPTION–MSR MODULE

CONNECTION
- 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 bis 140 cm/sec.

HEIGHT
- 179 mm

BA83 with integrated magnetic card reader

BA83 with integrated keyboard and magnetic card reader