

POS Printers

POS systems are the point of payment in the retail and service sectors. The customer pays for goods or services and receives a cash register receipt or itemized receipt as proof. Special POS printers are used for this; they print not only the customer receipt, but also a paper journal, checks, credit card slips, cash balances, etc. The requirements of today's POS printers are diverse. Whereas for some the receipt is shortterm proof that they have paid for goods, for others it is an important document for later warranty claims or as accounting evidence for the local tax office.

Wincor Nixdorf understands the sector's specific wishes and offers a tailored portfolio of POS printers to meet them. The range covers all needs from conventional dot matrix printers, to thermal and ink-jet printer, to the hybrid printer – a combination of dot matrix and thermal printing. All these printing technologies have their strengths. Whereas dot matrix printing impresses with low-cost consumables and multi-part printing, thermal printing offers high printing speeds, the very best service life and low noise level printing. Ink-jet printing is positioned between dot matrix and thermal printing. Users decide what printing technology best meets their requirements. The printers are supplied with power from the BEETLE system unit. This connection concept allows the printer to be integrated in the BEETLE emergency power supply concept (UPS). As a result, printing can be completed properly in the event of a power failure. A separate PSU



can be ordered for connection to a PC. All Wincor Nixdorf POS printers have a cash drawer interface.

The POS printers are quality products that are used worldwide and are always state-of-the-art. Whether the focus is on functionality, low foot print, design, operability, printing speed or price/performance – you will always find the right printer for your POS solution at Wincor Nixdorf. To keep the integration into your application is as simple as possible,

all the printers support the ESC/POS™ control sequences. In addition, OPOS and JavaPOS components are offered.


Dot matrix printers

TECHNICAL DATA

The **ND77** use tried-and-tested needle printing technology. It is robust and easy to operate and have an excellent price/performance ratio.

The POS printer has three printing stations, and thus offers receipt, journal, form and check printing functions.

It has a powered RS232c port for connecting the BA63 and BA66 customer displays.

DOT MATRIX PRINTERS	
	 ND77
Printing principle	9 needles, serial matrix printing
■ Print stations	3 (receipt, journal, document)
■ Paper widths (in mm)	
- Receipt / journal	69.5 (57.5 with adapter*)
- Doc. width / length	> 70 / > 70
■ Document copies	4
■ Printing positions (max.)	
- Receipt / journal	40
- Document	88
■ Printing speed	
- Receipt or journal:	6 lines/s
- Receipt and journal:	6 lines/s
- Document:	3 lines/s
■ Graphics/logo printing	✓
■ Loadable character sets	✓
■ Loadable character sets that can be loaded into the flash (resident)	✓
■ Receipt guillotine	✓
■ Port for cash drawer	✓
■ Port for customer display (RS232c)	✓
■ System interface	RS232c
■ ESC/POS™	✓
■ Fiscal controller (MF)	✓*
■ Power supply	24 V
■ Dimensions (H x W x D in mm)	215 x 251 x 280
■ Weight in kg (approx.)	6

*optional

Thermal and thermal hybrid printers




TECHNICAL DATA

The TH230 is a single-station thermal receipt printer with an excellent print quality, high printing speed and compact design. The TH230 impresses with its excellent ease of use and many port features.

The TH320 is a compact hybrid printer with one of the smallest footprint's in its class. This saves the limited space at the POS. The thermal receipt station prints with high print speed of up to 200 mm/s. The impact document station is very versatile. Beside a MICR check reader option the TH320 can optionally be equipped with an Image Reader. This extends the functionality of the printer and may be used in applications like Check21 and coupon reading.

The TH420 is a two-station thermal hybrid printer for printing receipts and documents. It combines thermal printing for receipts and dot matrix printing for documents in one housing. The thermal receipt station prints with up to 180mm/s. The impact document station supports a print with of up to 120mm and can print up to 5 copies. The extra wide document table allows also the transport of A4 or Letter format documents.

For all Wincor Nixdorf thermal and hybrid printers a wide range of interfaces from RS232 to PoweredUSB is available. All those printers can also print two color receipts using special paper.

THERMAL - AND HYBRID - PRINTERS			
	 TH230	 TH320	 TH420
Printing principle	Thermal direct	Thermal direct (rec.) Dot matrix (doc.)	
■ Paper widths (in mm)		80	
- Receipt	80	80	
- Document width/length	–	> 70 / > 51	
■ Document copies	–	4	5
■ Document printing width	–	77 mm (3")	120 mm (4.7")
■ Printing positions (max.)			
- Receipt (standard/compressed)		44 / 56	
- Document (standard/compressed)	–	42 / 51	66 / 88
■ Printing speed			
- Monochrome receipt	220 mm/s	200 mm/s	180 mm/s
- with 2-color thermal paper	110 mm/s	100 mm/s	
- Documents	–	4.8 lines/s	
■ Color receipt printing*		✓	
■ Graphics/logo printing		✓	
■ Barcode printing		✓	
■ Loadable character sets		✓	
■ Receipt guillotine		partial and full cut	
■ Port for cash drawer		✓	
■ Port for customer display (RS232c)	Option	–	
■ Interface options			
- Serial RS232c		✓	
- USB		✓	
- PoweredUSB		✓	
- Ethernet	✓	–	
■ ESC/POS™		✓	
■ Fiscal controller (MF)	Model TH230-MF	–	
■ Power supply		24 V	
■ Dimensions (H x W x D in mm)	148 x 145 x 195	168 x 165 x 290	178 x 229 x 264
■ Weight in kg (approx.)	2	4.8	
■ Options:	Width of receipt 57.5 mm	MICR check reader	–
■ Color options		black/light gray	

*with 2-color thermal paper

Printer

TECHNICAL DATA

IJ200 POS printer is a powerful, twocolor receipt printer. It is distinguished by an inkjet printing technology that is new in the POS arena. In terms of benefits from usage, this technology can be positioned between dot matrix and thermal printing. The printing speed is much faster than in dot matrix printing, and the noise level is comparable to thermal printing.

The housing of the IJ200 is extraordinarily compact for an ink-jet printer. There is nevertheless the option of accommodating two ink cartridges and thus permitting twocolor printing. The strikingly simple means of replacing paper rolls is an innovation. Inserting them is as simple as with today's thermal printers.

Ink-jet printing permits the use of environmentally friendly recycled paper, coupled with a better print quality than that of dot matrix printers. The printout is permanent. This printer is suitable in retailing where-ever moderate printing speed, low operating costs and a low noise level are desired.

INK-JET PRINTER



IJ200

Printing principle	Ink-jet printing, bidirectional
■ Number of ink cartridge	2
■ Paper width for receipt (in mm)	69.5
■ Document copies	—
■ Printing positions (max.)	42
■ Printing speed (max.)	6 lines/s (Full Line)
■ Graphics/logo printing	✓
■ Loadable character sets	✓
■ Receipt guillotine	✓
■ Port for cash drawer	✓
■ Port for customer display (RS232c)	—
■ System interface RS232c	✓
■ ESC/POST™	✓
■ Fiscal controller (MF)	—
■ Power supply 24 V	✓
■ Dimensions (H x W x D in mm)	152 x 172 x 226
■ Weight in kg (approx.)	2.7
■ Options:	USB interface Color cartridges: black, blue, red, grey

Published by
Wincor Nixdorf International GmbH
Retail Division
Heinz-Nixdorf-Ring 1
D-33106 Paderborn
Germany
Phone +49 (0) 52 51/693 39 01
Fax +49 (0) 52 51/693 39 03
info@wincor-nixdorf.com
<http://www.wincor-nixdorf.com>

© Wincor Nixdorf International GmbH

All rights, including rights created by patent grant or registration of a utility model or design, are reserved.
Delivery subject to availability, subject to change for technical reasons.

Order No.
Printed in Germany, April 2009