

The NAUT250 is a 2-inch panel printer, available with or without an integrated controller board.

As the latest addition to KFI's NAUT family of panel modules, it combines high performance and ease of use in a robust yet elegant housing. Its patented retractable cover system makes it ideal for a wide range of applications, including medical, industrial, banking, and point of sale. The seamless, variable input voltage circuitry ensures broad compatibility with various host devices.



NAUT250L  
closed door



NAUT250L  
open door

## GENERAL FEATURES

### PERFORMANCE

- Powerful text printing modes
- Powerful graphic modes
- Full control over printing speed and quality

### TECHNOLOGY

- Extended supply voltage range
- Retracting cover system (patented)
- Easy open paper cover system and robust closure
- Easy paper loading / drop in system
- Double tear bar
- End of paper detection
- Easy firmware upgrade

### PRINTING

- Three sizes of fonts
- Extended character sets
- Different types of barcodes supported

### SAFETY

- Printer status LED and feed button (all in one)

## MAIN APPLICATIONS



POS  
terminals



Measurement  
instrument



Banking  
devices



Medical  
equipment



Industrial  
equipment



Cash  
dispenser



Retail



Cash  
deposit



Kiosk



Voting

### NAUT250LD

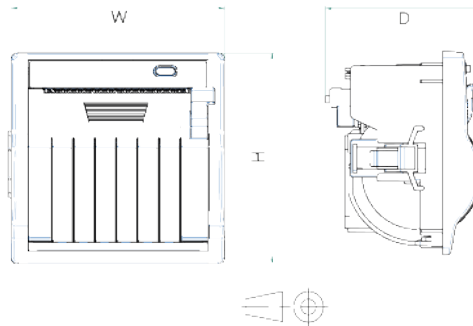
Voltage range 5V - 8.5V and 9V - 36V

### NAUT250LS

Voltage range 5V - 8.5V

### NAUT250NB

Version without electronic board



### NAUT 250LD/LS

#### Dimensions

W 90 x H 90 x D 69 mm (FD)  
W 90 x H 90 x D 63.4 mm (FS)

#### Weight

150 g without paper roll

## PRINTER SPECIFICATIONS

<b>Printing method</b>	Direct thermal dot-line printing
<b>Number of dots</b>	384
<b>Thermal head temperature detection</b>	Thermistore
<b>Printing resolution</b>	203 DPI (8 dots/mm)
<b>Heat element pitch</b>	0.125 mm
<b>Paper feed pitch</b>	0.0625 mm
<b>Printing width</b>	48 mm
<b>Printing speed</b>	Max. 80 mm/s (under certain conditions)
<b>Operating temperature</b>	From 0 to 50 °C
<b>Operating humidity</b>	From 20 to 85% RH (no condensation)
<b>Storage temperature</b>	From -20 to +60 °C
<b>Storage humidity</b>	From 10 to 90% RH (no condensation)
<b>Current consumption</b>	2A average, 5A peak (5V to 8.5V) 1.5A average (@24V)

## CUTTING METHOD

Metallic - tear up  
Plastic - tear down

## PRINTER LIFE SPECIFICATIONS

<b>Print head pulse life</b>	100 million pulses
<b>Print head abrasion life</b>	50 km of paper
<b>Cover open/close operations</b>	3.000 cycles or more

## STANDARDS

#### Complies with:

UL/IEC 62368-1 (UL-Recognized).  
FCC Title 47, Part 15, Subpart B.  
RoHS 2011/65/EU, 2015/863/EU and following amendments.  
CE 2014/30/EU, EN55032, EN55035.

## CONNECTIONS

Molex 53398-0671 (Serial RS232 Interface)  
Molex 53398-0671 (Serial TTL Interface)  
Female USB 2.0 Micro-B (VCOM Interface)  
JST-B4B-PH-SM4-TB (Power connection 5-8.5V)  
Weidmüller-LSF-SMD5.0/2/180 (Power connection 9-36V)

## DRIVERS

Windows 7 / 10 / 11  
Linux  
Android

## PAPER SPECIFICATIONS

<b>Type of paper</b>	Thermal rolls, outside heat sensitive
<b>Paper width</b>	57.5 mm +0.5/-0.5
<b>Paper weight</b>	Min. 55 / Max. 73 g/m <sup>2</sup>
<b>Paper thickness</b>	Min. 60 / Max. 82 µm
<b>Paper roll outside diameter</b>	Max. 50 mm
<b>Roll core inner diameter</b>	14 mm +1/-0
<b>Core material</b>	Plastic or cardboard
<b>Paper end</b>	Not attached to the roll core
<b>Recommended paper</b>	JUJO-AF50KS-E (standard grade, 55 g/m <sup>2</sup> ). Kanzan KF50 (55 g/m <sup>2</sup> ). Kanzan KPD460 (73 g/m <sup>2</sup> ). Equivalent types can be used.