

DE KONINGH



CODING · LABELING · INSPECTION



Label printers
for industrial operation

SQUIX

Made in Germany



Key features



SQUIX label printers for industrial operation

They find use in various areas of operation.

They have been developed with consistent focus on intuitive usability and highly reliable processing.

Print mechanics and chassis are made of high-quality materials and match perfectly in design and function.

A wide range of peripherals and software enable user-specific solutions.

The rugged printers stand up to any demand, whether operated stand-alone, with a PC or in a network.

Print jobs are performed quickly and labels are provided straight away thanks to a high-speed processor.

- Reliable and quick printing
- Accurate print images
- Easy to operate
- Compact design
- Maximum quality standards

Sample applications

PCB



Type plates



Cardboard and pallets



Label printers guiding materials aligned to the left

Optimum printing in matters of different widths and materials

DE KONINGH



CODING · LABELING · INSPECTION

+31 (0)26 741 00 00

info@dekoningh.nl | www.dekoningh.nl

1.1, 1.2



Slim ones

for printing small labels

| Label printer | | SQUIX 2 | |
|------------------|-----------|---------|------|
| Print resolution | dpi | 300 | 600 |
| Print speed | mm/s max. | 250 | 150 |
| Print width | mm max. | 56.9 | 54.1 |

1.3, 1.4



Universal ones

Best-selling industrial units, providing a wide range of accessories

| Label printers | | SQUIX 4.3 | | SQUIX 4 | |
|------------------|-----------|-----------|-------|---------|-------|
| Print resolution | dpi | 203 | 300 | 300 | 600 |
| Print speed | mm/s max. | 300 | 300 | 300 | 150 |
| Print width | mm max. | 104 | 108.4 | 105.7 | 105.7 |

A cutter can be provided integral to a basic unit.

1.5, 1.6



Wide ones

for printing Odette, UCC and GS1 labels in logistics operations

| Label printer | | SQUIX 6.3 | |
|------------------|-----------|-----------|-------|
| Print resolution | dpi | 203 | 300 |
| Print speed | mm/s max. | 250 | 250 |
| Print width | mm max. | 168 | 162.6 |

1.7, 1.8



Extra wide ones

for printing pallet and drum labels

| Label printer | | SQUIX 8.3 |
|------------------|-----------|-----------|
| Print resolution | dpi | 300 |
| Print speed | mm/s max. | 150 |
| Print width | mm max. | 216 |



Basic units

provide a tear-off plate
Printed labels or continuous materials, wound on a roll or fanfold, can be torn off on a jagged plate. Cutting a material is another option, so is external rewinding.



Peel-off units

provide an internal rewinder
Dispense adds to the features of a basic unit. Printed labels are peeled off their liner and can be removed by hand or by an applicator.



Control panel

Self-explanatory symbols simplify settings and enable printers be operated intuitive and easily.

- 1 **LED:** Power ON
- 2 **Status bar:** receive data, record data stream, prior warning to a ribbon ending, SD memory card / USB stick plugged, WLAN, Ethernet, USB slave, time
- 3 **Printer status:** ready, pause, number of labels printed in a print job, label peeled off, awaiting external start signal
- 4 **USB port** for plugging a service key or a memory stick, to transfer data to the IFFS memory
- 5 **Operation**
 - Cutter / perforation cutter cutting a material
 - External rewriter label rolls wound outside or inside
 - Applicator print and apply labels in individual steps
 - Tear-off mode / peel-off mode print a label
 - Tear-off mode label backfeed

- Jump to menu
- Stop and delete all print jobs

- Reprint
- Label feed

- Suspend and continue a print job



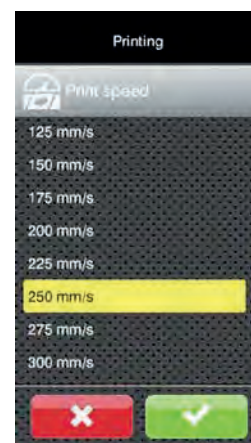
Setup



Print parameters



Print position Y



Print speed



Video tutorials

External control panel

If the control panel of a printer cannot be accessed, an additional external one can be plugged.

Same functionality as on a printer

Landscape mode or portrait mode

Operability as targeted, either on an external panel or on a printer

USB 2.0 Hi-Speed device for plugging a printer

- 1 **LED:** Power ON
- 2 **USB port** for plugging a service key or a memory stick, to transfer data to the IFFS memory
- 3 cab provides specified **USB cables** for power supply. Lengths are 1.8 m to 16 m





Print heads

2.1



A print head can be replaced by any other one, provided they are of equal width.

They are detected by the CPU and calibrated.

Major data such as operational performances, maximum operational temperatures and heating are kept in memory by the print head. The data can be read at the premise.

Print heads provided for SQUIX 2, SQUIX 4 - 300, 600 dpi

sharp-edged print images

small fonts, graphics on typeplates

printing on materials that imply high energy needs

Print heads provided for SQUIX 4.3, SQUIX 6.3 - 203, 300 dpi

Print heads provided for SQUIX 8.3 - 300 dpi

durable, printing in harsh environments, direct thermal printing

Print rollers

2.2, 2.5



Types of material:

DR print rollers

Synthetic rubber coating

highly accurate print images

standard

DRS print rollers

Silicone coating

extra long life cycles,

accepting higher tolerances in print image accuracy

Interfaces



1 Port for plugging a **SD memory card**

2 **2 USB hosts** for plugging a service key, an USB stick, a keyboard, barcode scanner, an USB WLAN stick, external control panel

3 **USB 2.0 Hi-Speed device** for plugging a PC

4 **Ethernet 10/100 Mbit/s**

5 **RS232-C** 1,200 to 230,400 baud / 8 bit

Option

6 **Digital I/O interface**

Printing is triggered via a PLC, a sensor or a hand switch. Status reports and errors are displayed.

Compliant to IEC/EN 61131-2, type 1+3

The inputs and outputs are galvanically isolated and protect from reverse polarity.

The outputs are also short-circuit-proof.

PNP inputs

Start printing / applying label

Print first label

Reprint

Delete print job

Label removed

Stop printing /applying label

Pause

Reset

PNP, NPN outputs

Unit ready

Print data available

Initial / upper end position

Paper feed ON

Label peeled off

Label apply / lower end position

Ribbon ending

Collective error



Technical data

Label printers guiding materials aligned to the left

● typical ○ possible ■ standard □ option

| | | 1.1, 1.2 | | 1.3, 1.4 | | | | 1.5, 1.6 | | 1.7, 1.8 |
|--|--|-----------------------|------------------------|------------------|--|-------------------|-----------------|------------------|-----------------|------------------|
| Type | | SQUIX 2 | | SQUIX 4.3 | | SQUIX 4 | | SQUIX 6.3 | | SQUIX 8.3 |
| Print method | Thermal transfer | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Direct thermal | ○ | – | ● | ● | ○ | – | ● | ● | ● |
| Print resolution | dpi | 300 | 600 | 203 | 300 | 300 | 600 | 203 | 300 | 300 |
| Print speed | mm/s max. | 250 | 150 | 300 | 300 | 300 | 150 | 250 | 250 | 150 |
| Print width | mm max. | 56.9 | 54.1 | 104 | 108.4 | 105.7 | 105.7 | 168 | 162.6 | 216 |
| Print length | mm max. | 12,000 | 3,000 | 13,500 | 6,000 | 6,000 | 1,500 | 9,000 | 4,000 | 3,000 |
| Initial print | Distance to locating edge | mm | | 2 | 2.8 | 1.2 | 2 | 0.5 | 3.2 | 2 |
| UHF-RFID | | | | | | | | | | |
| UHF-RFID Modul | | – | | □ | | □ | | □ | | □ |
| Material¹⁾ | | | | | | | | | | |
| Paper, cardboard, synthetics PET, PE, PP, PI, PVC, PU, acrylate, Tyvec | | ● | | ● | | ● | | ● | | ● |
| RFID labels according to separate specification | | – | | ● | | ● | | ○ | | ○ |
| Shrink tube | ready for use | – | | ○ | | ○ | | – | | – |
| | continuous, pressed | ○ | | ○ | | ○ | | – | | – |
| Textile tape | | ○ | | ○ | | ○ | | – | | – |
| Finishing | Roll, fanfold | ● | | ● | | ● | | ● | | ● |
| | Roll diameter | mm max. | | | | 205 | | | | |
| | Core diameter | mm | | | | 38.1 - 76 | | | | |
| | Winding | | | | | outside or inside | | | | |
| Label | Width | mm | | 4 - 63 | | 20 - 116 | | 46 - 176 | | 46 - 220 |
| | Height no label backfeed ²⁾ | mm at least | | 4 | | 4 | | 6 | | 25 |
| | label backfeed ²⁾ | mm at least | | 4 | | 6 | | 12 | | 25 |
| | label backfeed, peel-off | mm at least | | 6 | | 6 | | 12 | | 25 |
| Liner | Thickness | mm | | 0.03 - 0.6 | | 0.03 - 0.6 | | 0.03 - 0.6 | | 0.05 - 0.6 |
| | Width | mm | | 24 - 67 | | 24 - 120 | | 50 - 180 | | 50 - 235 |
| Continuous | Thickness | mm | | | | 0.03 - 0.16 | | | | |
| | Width | mm | | 24 - 67 | | 24 - 120 | | 50 - 180 | | 50 - 235 |
| | Thickness | mm | | 0.03 - 0.5 | | 0.03 - 0.5 | | 0.03 - 0.5 | | 0.03 - 0.5 |
| Shrink tube | Weight (cardboard) | g/m ² max. | | 300 | | 300 | | 300 | | 300 |
| | Width ready for use | mm max. | | – | | 120 | | – | | – |
| | continuous, pressed | mm | | 24 - 67 | | 24 - 85 | | – | | – |
| Ribbon ³⁾ | Thickness | mm max. | | 1.1 | | 1.1 | | – | | – |
| | Color layer | | | | | outside or inside | | | | |
| | Roll diameter | mm max. | | | | 80 | | | | |
| | Core diameter | mm | | | | 25.4 | | | | |
| | Length | m max. | | | | 600 | | | | 360 |
| Width | mm | | 25 - 67 | | 25 - 114 | | 50 - 170 | | 220 | |
| Internal rewinder provided on peel-off units | | | | | | | | | | |
| Outside diameter | mm max. | | | | 142 | | | | | |
| Core diameter | mm | | | | 40 | | | | | |
| Winding | | | | | outside | | | | | |
| Printer dimensions, weights | | | | | | | | | | |
| Width x Height x Depth | mm | | 200 x 288 x 460 | | 252 x 288 x 460 | | 312 x 288 x 460 | | 352 x 288 x 460 | |
| Weight | kg | | 9 | | 10 | | 14 | | 15 | |
| Label sensors, position indicators | | | | | | | | | | |
| Transmissive sensor | detecting | | | | labels, punch marks, materials ending, print marks on translucent materials | | | | | |
| Reflective sensor | from below or top | | detecting | | labels, materials ending, print marks on non-translucent materials | | | | | |
| Sensor distance | to locating edge | | aligned to the left mm | | 5 - 26 | | 5 - 60 | | 5 - 60 | |
| Material passage | mm max. | | | | 2 (5 are an option) | | | | | |
| Interfaces | | | | | | | | | | |
| RS232-C | 1,200 to 230,400 baud / 8 bit | | | | ■ | | | | | |
| USB | 2.0 Hi-Speed device for plugging a PC | | | | ■ | | | | | |
| Ethernet | 10/100 Mbit/s | | | | LPD, RawIP-Printing, SOAP-Webservice, OPC UA, WebDAV | | | | | |
| IPV4 and IPV6 | | | | | DHCP, HTTP/HTTPS, FTP/FTPS, TIME, NTP, Zeroconf, SNMP, SMTP, VNC | | | | | |
| 2 USB hosts on the control panel, 2 USB hosts on the back of a unit | | | | | Service key, USB stick, USB WLAN stick, USB WLAN stick with a rod antenna, keyboard, barcode scanner, external control panel | | | | | |
| USB host, 24 VDC, for peripheral plugging | | | | | ■ | | | | | |
| Digital I/O interface providing 8 inputs and 8 outputs | | | | | □ | | | | | |
| Operating data | | | | | | | | | | |
| Voltage | | | | | 100 - 240 VAC, 50/60 Hz, PFC | | | | | |
| Power consumption | | | | | <10 W in standby / 100 W in typical operation / max. 200 W | | | | | |
| Temperature / humidity | Operation | | | | +5 - 40°C / 10 - 85 %, not condensing | | | | | |
| | Stock | | | | 0 - 60°C / 20 - 85 %, not condensing | | | | | |
| | Transport | | | | -25 - 60°C / 20 - 85 %, not condensing | | | | | |
| Approvals | | | | | CE, UKCA, FCC Class A, ICES-3, cULus, CB, CCC, BIS, BSMI, KC-Mark, Mexico Reg. → BIS, KC-Mark not provided for SQUIX 8.3 | | | | | |
| Control panel | | | | | | | | | | |
| Color LCD touchscreen | Diagonal | | " | | 4.3 | | | | | |
| | Resolution Width x Height | | px | | 272 x 480 | | | | | |

¹⁾ Specifications are standards. Operations including small, slim, thick or stiff materials need testing, so do strongly adhesive labels.

²⁾ if labels are torn off, cut, rewound

³⁾ A ribbon should be at least as wide as the liner material.



Technical data

Label printers guiding materials in centered position

● typical ○ possible ■ standard □ option

| | | 1.11, 1.12 | | | | 1.14 | | | | |
|--|--|-----------------------|---|------------------|--|--------------------|-------|------------------|-----------------|--|
| Type | | SQUIX 4.3 M | | SQUIX 4 M | | SQUIX4.3 MT | | SQUIX4 MT | | |
| Print method | Thermal transfer | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Direct thermal | ● | ● | ○ | - | ● | ○ | - | - | |
| Print resolution | dpi | 203 | 300 | 300 | 600 | 300 | 300 | 600 | 600 | |
| Print speed | mm/s max. | 300 | 300 | 300 | 150 | 300 | 300 | 150 | 150 | |
| Print width | mm max. | 104 | 108.4 | 105.7 | 105.7 | 108.4 | 105.7 | 105.7 | 105.7 | |
| Print length | mm max. | 13,500 | 6,000 | 6,000 | 1,500 | 6,000 | 6,000 | 1,500 | 1,500 | |
| Initial print | Distance to locating edge | centered | | | | | | | | |
| UHF-RFID | | □ | | □ | | - | | - | | |
| Material¹⁾ | | | | | | | | | | |
| Paper, cardboard, synthetics PET, PE, PP, PI, PVC, PU, acrylate, Tyvec | | | | ● | | | | ● | | |
| RFID labels according to separate specification | | ● | | ● | | - | | - | | |
| Shrink tube | ready for use | | | ● | | | | ○ | | |
| | continuous, pressed | | | ● | | | | ○ | | |
| Textile tape | | | | ○ | | | | ● | | |
| Finishing | Roll, fanfold | | | ● | | | | ● | | |
| | Roll diameter | mm max. | | | | 205 | | | | |
| | Core diameter | mm | | | | 38.1 - 76 | | | | |
| | Winding | | | | | outside or inside | | | | |
| Label | Width | mm | | 4 - 110 | | | | 4 - 110 | | |
| | Height no label backfeed ²⁾ | mm at least | | 3 | | | | 4 | | |
| | label backfeed ²⁾ | mm at least | | 4 | | | | 6 | | |
| | label backfeed, peel-off | mm at least | | 6 | | | | - | | |
| Liner | Thickness | mm | | | | 0.03 - 0.6 | | | | |
| | Width | mm | | 9 - 114 | | | | 9 - 114 | | |
| Continuous | Thickness | mm | | | | 0.03 - 0.16 | | | | |
| | Width | mm | | 9 - 114 | | | | 9 - 114 | | |
| Shrink tube | Thickness | mm | | 0.03 - 0.5 | | | | 0.03 - 0.5 | | |
| | Weight (cardboard) | g/m ² max. | | 300 | | | | 300 | | |
| | Width ready for use | mm max. | | 114 | | | | 114 | | |
| Hose | continuous, pressed | mm | | 4 - 85 | | | | 4 - 85 | | |
| | Thickness | mm max. | | 1.1 | | | | 1.1 | | |
| | continuous, round or oval | max. height mm | | 5 | | | | - | | |
| Ribbon ³⁾ | Color layer | | | | | outside or inside | | | | |
| | Roll diameter | mm max. | | | | 80 | | | | |
| | Core diameter | mm | | | | 25.4 | | | | |
| | Length | m max. | | | | 600 | | | | |
| | Width | mm | | | | 25 - 114 | | | | |
| Internal rewinder provided on peel-off units | | | | | | | | | | |
| Outside diameter | mm max. | | 142 | | | | | | - | |
| Core diameter | mm | | 40 | | | | | | - | |
| Winding | | | außen | | | | | | - | |
| Printer dimensions, weights | | | | | | | | | | |
| Width x Height x Depth | mm | | 252 x 288 x 460 | | | | | | 252 x 288 x 460 | |
| Weight | kg | | 10 | | | | | | 10 | |
| Label sensors, position indicators | | | | | | | | | | |
| Transmissive sensor | detecting | | labels, punch marks, materials ending, print marks on translucent materials | | | | | | | |
| Reflective sensor | from below or top | | detecting | | | | | | | |
| Sensor distance | to locating edge | | centered position mm | | labels, materials ending, print marks on non-translucent materials | | | | | |
| Material passage | mm max. | | 0 - 55 | | | | | | | |
| 2 (5 are an option) | | | | | | | | | | |
| Interfaces | | | | | | | | | | |
| RS232-C | 1,200 to 230,400 baud / 8 bit | | ■ | | | | | | | |
| USB 2.0 Hi-Speed device for plugging a PC | | | ■ | | | | | | | |
| Ethernet 10/100 Mbit/s IPv4 and IPv6 | | | LPD, RawIP printing, SOAP web service, OPC UA, WebDAV DHCP, HTTP/HTTPS, FTP/FTPS, TIME, NTP, Zeroconf, SNMP, SMTP, VNC | | | | | | | |
| 2 USB hosts on the control panel, 2 USB hosts on the back of a unit | | | Service key, USB stick, USB WLAN stick, USB WLAN stick with a rod antenna, keyboard, barcode scanner, external control panel (on back only) | | | | | | | |
| USB host, 24 VDC, for peripheral plugging | | | ■ | | | | | | | |
| Digital I/O interface providing 8 inputs and 8 outputs | | | □ | | | | | | | |
| Operating data | | | | | | | | | | |
| Voltage | | | 100 - 240 VAC, 50/60 Hz, PFC | | | | | | | |
| Consumption of power | | | <10 W in standby / 100 W in typical operation / max. 200 W | | | | | | | |
| Temperature / humidity | Operation | | +5 - 40°C / 10 - 85 %, not condensing | | | | | | | |
| | Stock | | 0 - 60°C / 20 - 85 %, not condensing | | | | | | | |
| | Transport | | -25 - 60°C / 20 - 85 %, not condensing | | | | | | | |
| Approvals | | | CE, UKCA, FCC Class A, ICES-3, cULus, CB, CCC, BIS, BSMI, KC-Mark, Mexico Reg. | | | | | | | |
| Control panel | | | | | | | | | | |
| Color LCD touchscreen | Diagonal | | " | | 4.3 | | | | | |
| | Resolution Width x Height | | px | | 272 x 480 | | | | | |

¹⁾ Specifications are standards. Operations including small, slim, thick or stiff materials need testing, so do strongly adhesive labels.

²⁾ if labels are torn off, cut, rewound

³⁾ A ribbon should be at least as wide as the liner material.

Technical data

■ standard □ option

| Electronics | | |
|--|--|--|
| Processor, 32 bit clock rate | MHz | 800 |
| RAM | MB | 256 |
| IFFS | MB | 50 |
| Port for plugging a SD memory card (SDHC, SDXC) | GB max. | 512 |
| Battery for indicating time and date, real-time clock | | ■ |
| Data kept in memory (e.g. serial numbers) when power turns off | | ■ |
| Setup options | | |
| Print Labels | Region: | - Language |
| Ribbon | | - Country |
| Tear off | | - Keyboard |
| Peal off | | - Time zone |
| Cut | | Time |
| Apply | Display: | - Brightness |
| Interfaces | | - Power saving mode |
| Error | | - Orientation |
| | | Interpreter |
| Status bar | | |
| Receive data | WLAN | |
| Record data stream | Ethernet | |
| Prior warning to a ribbon ending | USB slave | |
| SD memory card plugged | Time | |
| USB stick plugged | | |
| Controls | | |
| Ribbon winding | Print head voltage | |
| Prior warning to a ribbon ending | Print head temperature | |
| Ribbon ending | Print head open | |
| Running out of material | Pinch roller open (peel-off unit, separator) | |
| | Peripheral error | |
| Test routines | | |
| System diagnostics | upon startup, detection of print head included | |
| Information display, test printout, analysis | Status printout | Test grid |
| | Fonts list | Label profile |
| | List of units | List of events |
| | WLAN status | Monitor mode |
| Status reports | - Printout of print durations, running hours, etc. - Status of a unit requested by software command - Display of errors related to a network, barcode or peripheral device, as well as links missing | |
| Fonts | | |
| Integral | 5 bitmap fonts: 12 x 12 dots 16 x 16 dots 16 x 32 dots OCR-A OCR-B | 7 vector fonts: AR Heiti Medium GB-Mono CG Triumvirate Cond. Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold |
| For storing | TrueType fonts | |
| Sets of characters | Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869 EBCDIC 500 ISO 8859-1 to -10 and -13 to -16 WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R Western European Eastern European Chinese, simplified Chinese, traditional Thai | |
| | | Cyrillic Greek Latin Hebrew Arabian |
| Bitmap | 1 mm to 3 mm wide and high Zoom factors 2 to 10 0°, 90°, 180°, 270° orientations | |
| Vector / TrueType | 0.9 mm to 128 mm wide and high Continuous zoom 360° orientation in steps of 1° | |
| Styles | bold, italic, underlined, outline, inverse - depending on the font type | |
| Character spacing | proportional or monospace | |

| Graphics | | |
|--|--|--|
| Elements | lines, arrows, rectangles, circles, ellipses - filled and gradient | |
| Formats | PCX, IMG, BMP, TIF, MAC, GIF, PNG | |
| Codes | | |
| 1D barcodes (linear) | Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C EAN 8, 13 EAN/UCC 128 / GS1-128 EAN/UPC Appendix 2 EAN/UPC Appendix 5 FIM HIBC | Interleaved 2/5 Ident and routing code of Deutsche Post Codabar JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0 |
| 2D codes, stacked codes | DataMatrix DataMatrix Rectangle Extension QR code Micro QR code rMQR code GS1 QR code GS1 DataMatrix GS1 Digital Link (QR and DataMatrix) PDF 417 Micro PDF 417 UPS MaxiCode GS1 DataBar Aztec Codablock F Dotcode RSS 14 truncated, limited, stacked, omni-directional | All codes may vary in height, modular width and ratio. 0°, 90°, 180°, 270° orientations Feasibility of check digits, plain text printouts and start/stop coding depends on the type of code. |
| Software | | |
| Label software | cablabel S3 Lite cablabel S3 Viewer cablabel S3 Pro cablabel S3 Print | ■ ■ □ □ |
| Running also with | CODESOFT Software Spectrum NiceLabel BarTender | |
| Stand-alone operation | | ■ |
| Windows printer drivers certified WHQL for | Windows 10 Windows 11 | Server 2016 Server 2019 Server 2022 |
| Apple printer drivers | Mac OS X 10.6 or any later release | |
| Linux printer drivers | CUPS 1.2 or any later release | |
| Programming | JScript printer language abc Basic Compiler ZPL II (Datastream be tested in advance) | ■ ■ □ |
| Integration | SAP Database Connector | ■ ■ |
| Administration | Printer control Configuration on the Intranet and Internet | ■ ■ |

Free and Open Source software in cab products:
www.cab.de/opensource

DE KONINGH

 CODING · LABELING · INSPECTION

+31 (0)26 741 00 00
info@dekoningh.nl | www.dekoningh.nl