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CODING · LABELING · INSPECTION

Products need labeling

Label printers for industrial applications

SQUIX

Made in Germany

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Key features

SQUIX

Label printers for industrial applications

They are for use in a wide range of applications.

They have been developed with a constant focus on easy and intuitive operation as well as high reliability.

The print mechanics and the chassis are made from high-quality materials and perfectly match in shape and function.

A large number of peripherals and software enable customer-specific solutions.

Whether operated stand-alone, linked to a PC or in a network – the rugged printers are always up to the mark.

A powerful processor results in print jobs performed quickly and labels provided straight away.

- reliable and fast printing
- accurate print images
- easy to operate
- compact design
- maximum quality standards

Sample applications

PCB labeling

Type plate labeling

Cardboard and pallet labeling

Label printers with left-aligned material guidance

designed for printing in different print widths on various materials

1.1, 1.2

Slim ones

to print small labels

Label printer		SQUIX 2	
Printable resolution	dpi	300	600
Print speed	up to mm/s	250	150
Print width	up to mm	56.9	54.1

1.3, 1.4

Universal ones

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

Label printer		SQUIX 4.3		SQUIX 4	
Printable resolution	dpi	203	300	300	600
Print speed	up to mm/s	250	250	300	150
Print width	up to mm	104	108.4	105.7	105.7

NEW Basic devices may be provided with an integral cutter.

1.5, 1.6

Wide ones

to print Odette, UCC and GS1 labels in logistics applications

Label printer		SQUIX 6.3	
Printable resolution	dpi	203	300
Print speed	up to mm/s	250	250
Print width	up to mm	168	162.6

Basic device

providing a tear-off plate

They print on labels or on continuous materials wound on rolls or fanfold. Materials are torn off on a jagged plate. Cutting is an option, so is external rewinding.

Peel-off device

providing a rewinder internally

Peeling off labels is a feature added to a basic version. Labels are separated from the liner after printing to be removed by hand or by an applicator. Delivery includes a digital I/O interface

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The extra wide one

to print pallet or barrel labels

Label printer		A8+
Printable resolution	dpi	300
Print speed	up to mm/s	150
Print width	up to mm	216

For further information on the A8+ see **www.cab.de/en/a8plus**

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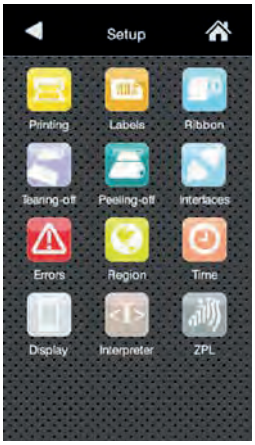
Operation panel

Self-explanatory symbols help with the device settings and enable a printer to be operated intuitive and easily.

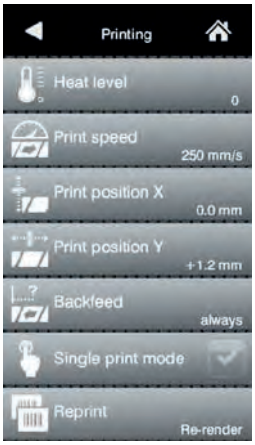
1. **LED:** Power ON
2. **Status bar:** reception of data, record data stream, pre-warning to a ribbon ending, SD memory card / USB memory stick plugged, Bluetooth, WLAN, Ethernet, USB slave, time
3. **Printer status:** ready, pause, number of labels printed in a print job, label in peel-off position, external start signal awaited
4. **USB port** to plug a service key or a memory stick, to transfer data to the IFFS memory
5. **USB WLAN stick** 2.4 GHz 802.11b/g/n enclosed in the scope of delivery; In hotspot mode, mobile devices can connect directly to a printer via WLAN.
6. **Operation**

Cutter / perforation cutter:	cutting
External rewinder:	wound outside or inside
Tear-off mode / peel-off mode:	printing a label
Applicator:	printing and labeling in individual steps

Jump to menu
Reprint last label
Stop and delete all print jobs
Label feed
Interrupt and continue print job

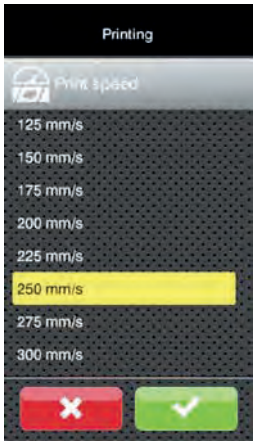


Setup options



Printing parameters

Print positions Y



Print speeds

Video tutorials

External operation panel

same functionality as on the printer

display in landscape or portrait mode

Users are free to choose whether to operate the external panel or the one installed on the printer.

USB 2.0 Hi-Speed device to connect a printer

1. **LED:** Power ON
2. **USB port** to plug a service key or a memory stick, to transfer data to the IFFS memory
3. **Connecting USB cable**, lengths 1.8 m to 16 m
   If length succeeds 3 m, use only specified cables.
   For dimensions see assembly instructions

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Print heads

2.1

A print head can be replaced by any other one, provided they are of equal width.
They are detected and calibrated by the CPU automatically.

Major data such as the operational performance, maximum operational temperatures and heat energies are kept in memory on a print head. The data can be read at the premise.

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

to print sharp-edge images
to print small fonts and graphics on typeplates
to print on materials that imply high energy needs

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

durable
to operate in harsh environments, thermal direct printing

Print rollers

2.2, 2.5

Two materials:

Print rollers DR

Synthetic rubber coating
highly accurate print images, provided as standard

Print rollers DRS

Silicone coating
extra long service life at a higher print image tolerance

Interfaces

1. to plug a **SD memory card**
2. **2 USB hosts** to plug a service key, USB memory stick, keyboard, barcode scanner, USB Bluetooth adapter, USB WLAN stick, external operation panel
3. **USB 2.0 Hi-Speed device** to connect a PC
4. **Ethernet 10/100 Mbit/s**
5. **RS232-C** 1,200 to 230,400 baud / 8 bit
6. **Digital I/O interface**
   a standard on peel-off devices, an option for basic devices

   Printing is triggered by a PLC, a sensor or with the help of a hand switch. Status and error reports are displayed.

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

   All the inputs and outputs are galvanically isolated and protect from reverse polarity. The outputs also protect from short circuit.

PNP inputs	PNP, NPN outputs
Start printing or labeling	Device ready
Print first label	Print data available
Reprint	Initial / upper end position
Delete print job	Paper feed ON
Label removed	Label in peel-off position
Stop printing or labeling	Label transfer / lower end position
Pause	Pre-warning to ribbon ending
Reset	Collective error

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Technical data

● typical ○ possible ■ standard □ option

Label printer			Type	1.1, 1.2 SQUIX 2		1.3, 1.4 SQUIX 4.3		SQUIX 4		1.5, 1.6 SQUIX 6.3		1.7, 1.8 SQUIX 4.3 M		SQUIX 4 M		1.9 SQUIX 4.3MT	SQUIX 4 MT	
Material guidance				left-aligned								centered						
Printing method	Thermal transfer			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Thermal direct			○	–	●	●	○	–	●	●	●	●	○	–	●	○	–
Printable resolution			dpi	300	600	203	300	300	600	203	300	203	300	300	600	300	300	600
Print speed			up to mm/s	250	150	250	250	300	150	250	250	250	250	300	150	250	300	150
Print width			up to mm	56.9	54.1	104	108.4	105.7	105.7	168	162.6	104	108.4	105.7	105.7	108.4	105.7	105.7
Initial print	Distance to locating edge		mm	2		2.8	1.2	2		0.5	3.2	centered						
Material[1]																		
Paper, cardboard, plastics PET, PE, PP, PI, PVC, PU, acrylate, Tyvec				●		●				●		●				●		
Shrink tube	ready for use			–		○				○		●				○		
	continuous, pressed			–		–				–		●				○		
Textile tape				–		–				–		○				●		
Packing	wound on a roll, fanfold			●		●				●		●				●		
	wound on a reel			–		–				–		●				●		
	Roll diameter		up to mm	205														
	Core diameter		mm	38.1 - 76														
	Winding			outside or inside														
Labels	Width		mm	4 - 63		20 - 116				46 - 176		4 - 110				4 - 110		
	Height	no label backfeed[2]	from mm	4		4				6		3				4		
		label backfeed[2]	from mm	4		6				12		4				6		
		label backfeed peel-off	from mm	6		6				12		6				–		
	Thickness		mm	0.03 - 0.6														
Liner	Width		mm	24 - 67		24 - 120				50 - 180		9 - 114				9 - 114		
	Thickness		mm	0.03 - 0.16														
Continuous material	Width		mm	24 - 67		24 - 120				50 - 180		9 - 114				9 - 114		
	Thickness		mm	0.05 - 0.5														
	Weight (cardboard)		up to g/m²	300														
Shrink tube	Width	ready for use	up to mm	–		120				–		114				114		
		continuous, pressed	mm	–		–				–		4 - 85				4 - 85		
	Thickness		up to mm	–		1.1				–		1.1				1.1		
Ribbon[3]	Coating			outside or inside														
	Roll diameter		up to mm	90														
	Core diameter		mm	25.4														
	Length		up to m	600														
	Width		mm	25 - 67		25 - 114				50 - 170		25 - 114				25 - 114		
Internal rewinder provided on peel-off devices																		
Outside diameter			up to mm	142												–		
Core diameter			mm	40												–		
Winding				outside												–		
Printer dimensions and weights																		
Width x Height x Depth			mm	200 x 288 x 460		252 x 288 x 460				312 x 288 x 460		252 x 288 x 460				252 x 288 x 460		
Weight			kg	9		10				14		10				10		
Label sensors to indicate positions																		
Transmissive sensor			detecting	labels or punch marks and materials ending, print marks on translucent materials														
Reflective sensor	reflex from below or top		detecting	labels and materials ending, print marks on non-translucent materials														
Sensor distance	to locating edge		left-aligned mm	5 - 26		5 - 60				5 - 60		–				–		
	from centre to locating edge		centered mm	–		–				–		0 - 55				0 - 55		
Material passage			up to mm	2														
Electronics																		
Processor 32 bit clock rate			MHz	800														
Main memory (RAM)			MB	256														
Data memory (IFFS)			MB	50														
Port to plug a SD memory card (SDHC, SDXC)			up to GB	512														
Battery to indicate time and date, real-time clock				■														
Data memory when power turns off (e.g. serial numbers)				■														
Interfaces																		
RS232-C 1,200 to 230,400 baud / 8 bit				■														
USB 2.0 Hi-Speed device to connect a PC				■														
Ethernet 10/100 Mbit/s				LPD, RawIP printing, SOAP webservice, OPC UA, WebDAV DHCP, HTTP/HTTPS, FTP/FTPS, TIME, NTP, Zeroconf, SNMP, SMTP, VNC														
1 USB host on the operation panel			to plug a	service key or USB memory stick														
1 USB host on the operation panel			to plug a	USB WLAN stick 2.4 GHz 802.11b/g/n														
2 USB hosts on the back of the device			to plug a	Service Key, USB memory stick, keyboard, barcode scanner, USB Bluetooth adapter, USB WLAN stick, external operation panel														
USB WLAN stick 2.4 GHz 802.11b/g/n				hotspot mode or infrastructure mode ■ (enclosed in the scope of delivery)														
2.4 GHz 802.11b/g/n + 5 GHz 802.11a/n/ac, rod antenna				hotspot mode or infrastructure mode □														
USB Bluetooth adapter				□														
USB host, 24 VDC, to plug peripherals				■														
Digital I/O interface		Peel-off printer		■												–		
providing 8 inputs and outputs		Basic printer		□														

[1] Specifications are standard values. Applications with small or strongly adhesive labels have to be tested, so are thin, slim, thick or stiff materials.
[2] when labels are torn off, cut, rewound
[3] A ribbon should be at least as wide as the liner.

Technical data

■ standard ☐ option

Operating data		
Voltage		100 - 240 VAC, 50/60 Hz, PFC
Power consumption		< 10 W in standby / typical are 100 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, FCC Class A, ICES-3, cULus, CB, CoC Mexico, CCC, EAC, BIS, BSMI, KC-Mark

Operation panel			
Colored LCD touch display	Screen diagonal	"	4.3
	Resolution Width x Height	px	272 x 480

Setup options		
	Print Labels Ribbon Tear-off Peal-off Cut Apply Interfaces Error	Region: - Language - Country - Keyboard - Time zone Time Display: - Brightness - Power saving mode - Orientation Interpreter

Status bar		
	Reception of data Record data stream Pre-warning to a ribbon ending SD memory card plugged USB memory stick plugged	Bluetooth WLAN Ethernet USB slave Time

Controls		
	Ribbon winding Ribbon pre-warning Ribbon ending Material ending	Print head voltage Print head temperature Print head open Pinch roller open (peel-off device, separator) Peripheral error

Test routines		
System diagnostics	and print head detection at start up	
Display of information, test printout, analysis	Status printout Fonts list List of devices WLAN status	Test grid Label profile List of events Monitor mode
Status reports	- Printout of printer settings such as print lengths and service hours so far - Device status request by software command - Display of network errors, links missing, barcode errors, peripheral errors, etc. on the operation panel	

Fonts		
provided internally	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
to store	TrueType fonts	
Character sets	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 Arabic
Bitmap fonts	Widths and heights 1 - 3 mm Zoom factors 2 to 10 Orientations 0°, 90°, 180°, 270°	
Vector / TrueType fonts	Widths and heights 0.9 - 128 mm Continuous zoom Orientation 360° in steps of 1°	
Font styles	bold, italic, underlined, outline, inverse - depending from the font type	
Character spacing	variable or monospace	

Graphics		
Elements	lines, arrows, rectangles, circles, ellipses - filled and gradient	
Formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG	

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 and stacked	DataMatrix DataMatrix Rectangle Extension QR code Micro QR code GS1 QR code GS1 DataMatrix PDF 417 Micro PDF 417 UPS MaxiCode GS1 DataBar Aztec Codablock F Dotcode RSS 14 truncated, limited, stacked, stacked omni-directional	
	All codes may vary in height, modular width and ratio. Orientations 0°, 90°, 180°, 270° Check digits, plain text printouts and start/stop codes are options depending from the type of code.	

Software		
Label software	cablabel S3 Lite cablabel S3 Viewer cablabel S3 Pro cablabel S3 Print	■ ■ ☐ ☐
Running also with	CODESOFT NiceLabel BarTender	
Stand-alone operation		■
Windows printer drivers WHQL certified for	Windows Vista Windows 7 Windows 8 Windows 8.1 Windows 10 Server 2008 Server 2008 R2 Server 2012 Server 2012 R2 Server 2016 Server 2019	■
Apple Mac OS X printer drivers	from version 10.6	■
Linux printer drivers	from CUPS 1.2	■
Programming	JScript printer language abc Basic Compiler	■ ■
Integration	SAP Database Connector	■ ■
Emulation	ZPL (Datastream must be tested in advance.)	
Administration	Printer control Configuration in the Intranet and Internet Network Manager (in preparation)	■ ■ ■

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