Status: 09/2019



Products need labeling

Tube labeling system



AXON 2 Made in Germany

Labeling tubes reliably in real time



In order to evaluate analyses reliably and quickly, tubes must be labeled uniquely.

In practice, 2D codes or linear barcodes are printed on self-adhesive labels and the labels are applied on the tubes.

Print resolutions of 300 or 600 dpi, a sharp-edge print image and high contrast enable even tiny 2D codes to be verified. Thermal direct and thermal transfer printing are possible.

AXON 2 suits for labeling tubes individually as a manual workstation or integrated in sample processing systems.

Tubes of diameters 10 to 17 mm can be processed, capped or uncapped. Printing and labeling take less than two seconds.

After the tubes have been labeled, they can be removed one by one or be ejected to a tray.

Self-explanatory symbols enable intuitive operation. The label roll and the ribbon are easy to remove. If it comes to cleaning or in cases of wear, print rollers and transport rollers can be removed easily by the operator with the help of a tool attached.

AXON 2 may be integrated in a Laboratory Information Management System (LIMS). Data transfer from a PC is possible via interfaces such as RS232, USB, Ethernet, or via WLAN.

In stand-alone operation, when no PC is connected, variable data are set with a keyboard or a scanner.

Power may be supplied by 110 to 240 VAC voltage or 24 to 60 VDC voltage.

Details on tube labeling on the label printer, see SQUIX



Stop

With the help of spacers assembled to the tightening axles, slim ribbons can be set easily.

2 Slim print rollers

In order to achieve accurate imprint on small labels, slim print rollers are needed. These prevent from roller wear, print head contamination and errors during label feed.

3 Peel-off function

Labels are guided over a deflection roller to be applied reliably on the tubes.

Transport rollers

They apply the labels on the tubes. Three types are provided for different tubes.

6 Wipe-down rollers

During labeling, they press the tubes to the transport rollers.

O Pivot arms

They are set according to the length of a tube and the position of the label.

Material replacement

Pivoting the applicator allows labels and ribbon to be inserted.





Technical data

Tube labelin	g system	Туре	AXON 2 4.3	AXON 2 4			
Material guid	e			centered			
	Therma	al transfer	•	•	•		
Printing metl	Therma	al direct	•	0	-		
Printable res	olution	dpi	300	300	600		
Print speed		mm/s	100	100	100		
Print width		up to mm	108.4	105.7	105.7		
Material							
Tubes	Orientation dur	ing labeling		horizontal			
	Diameter		mm	10 - 17			
	Length capped		mm	38 - 105			
	Conicity (chang	e of diameter)	up to %	0	.8		
Labels	Material	F	Paper, plast				
	Width mm 10 - 56			- 56			
	Height from m			1	.5		
	Roll diameter up to		up to mm	205			
	Core diameter		mm	38 - 76			
	Winding			outside			
Liner materia	l width		up to mm	6	0		
Ribbon	Ink side			outside	or inside		
	Roll diameter		up to mm	80			
	Core diameter		mm	25			
	Variable length		up to m				
	Width		mm	25 -	114		
Printer sizes	and weight						
Width x Heigl	nt x Depth		mm	252 x 2	88 x 520		
Weight			approx. kg	1	.2		
Interfaces							
RS232C		1,200 to 23	0,400 baud,	/8 Bit			
USB 2.0		Hi-speed de	evice to con	nect a PC			
Ethernet		10/100 Mbit	:/s				
1xUSB host		Service Key	Service Key, USB memory stick				
on the opera	tion panel fo	r	Service key, OSB memory stick				
1xUSB host on the operation panel for		USB WLAN	USB WLAN stick 2.4 GHz 802.11b/g/n				
2xUSB host	tion panet 10		narcode sca	nner			
on the back of	of the device fo		keyboard, barcode scanner, USB Bluetooth adapter, USB WLAN stick				
Digital I/O int	erface		providing 8 inputs and outputs				
Operating d	ata						
n 1		100 - 240 VA	AC, 50/60 Hz	z, PFC			
Power supply	/	24 - 60 VDC					
Power consu	mption	Standby < 10 W / typical 100 W					
Temperature	•	+5 - 40°C / 10 - 85 %, not condensing					
humidity	Stock		20 - 85 %, r				
	Transpor						
Approvals		CE, FCC Cla					
Operation p	anel	,		. , -			
	touch display	Screen diag	gonal "	4	.3		
	-12	Resolution			x 480		
Monitoring							
	Ribbon pre-war	ning F	Periphery er	ror			
End of ribbon Direction of ribbo End of labels			Print head voltage				
			n winding Print head temperature Print head open				
	ia oi tabets		Pinch roller				
Fonts							
Font types	5 Bitmap fonts:		vector fon				
internally	12 x 12 dots		AR Heiti Med				
provided	16 x 16 dots		CG Triumvira	ate Condei	nsed Bol		
	16 x 32 dots OCR-A		Garuda HanWangHe	iLight			
	OCR-B		Monospace	-			
		9	Swiss 721				
	T	9	Swiss 721 Bo	old			
to be stored	TrueType fonts						

Character sets Windows-1250 to -1257 DOS 437, 737, 75, 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 Chinese simplified Chinese simplified Chinese simplified Chinese simplified Chinese simplified Chinese simplified Chinese traditional Thai Arabic Bitmap fonts Widths and heights 1 - 3 mm Zoom factors 2 to 10 Orientations 20°, 90°, 180°, 270° Vector / Widths and heights 0.9 - 128 mm Continuous zoom Orientations 360° in steps of 1° Font styles bold, italic, underlined, outline, inverse - depending from the font types Graphics Graphic elements Lines, arrows, rectangles, circles, ellipses - filled or filled with fading Fox, IMG, BMP, TIF, MAC, GIF, PNG Barcodes Linear Code 39, Code 93 Code 39 Full ASCII Ident and routing code Code 128 A, B, C Code 39 Full ASCII EAN/UPC Appendix 2 EAN/UPC Appendix 2 EAN/UPC Appendix 5 FIM Postnet HIBC DataMatrix Postnet HIBC DataMatrix Postnet HIBC DataMatrix Postnet HIBC DataMatrix RSS 14 UPC A, E, E0 DataMatrix RSS 14 truncated, limite stacked / omnidirection All codes are variable in terms of height, modular width and ratic, orientations 0°, 90°, 180°, 270° check digit, plain text printout and start / stop code are options depending from the type of code Software Label software cablabel S3 Pro cablabel S3 Viewer Cablabel S3 Pro cablabel S3 Viewer Cablabel S3 Pro cablabel S3 Viewer Cablabel S3 Pro cablabel S3 Print Cablabel S6 Server 2012 Windo		• • • •	0 111		
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- depending from the font types Character spacing variable or monospace Graphics Graphic elements	' .	Widths and he	eights 0.9 - 12 oom	8 mm	
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	printer drivers	from version 1	10.6		•
Linux printer drivers from CUPS 1.2 Programming JScript printer language					
abc Basic Compiler Integration SAP		abc Basic Con			
Database Connector Administration Printer control Configuration in Intranet and Internet	-	Database Con Printer contro Configuration	l in Intranet a		

Label software cablabel S3

Designing, printing, administrating

cablabel S3 opens up the full potential of cab devices.
First of all, the label must be designed. cablabel S3 is of a modular design which makes it adaptable to requirements step by step.
To support functions like native JScript programming, elements such as the JScript Viewer are embedded as plug-ins.
The designer user interface and the JScript code are synchronized.

The designer user interface and the JScript code are synchronized in real time. Special functions like the Database Connector or barcode testers can be integrated.







Stand-alone printing

This operating mode is the printer's ability to select and print labels even when it is not connected to a host system.

The label has to be designed with a software such as cablabel S3 or by direct programming with a text editor on a PC. Label formats, texts, graphics as well as database contents are stored on a memory card, a USB memory stick or in the internal IFFS memory. Only variable data are sent to the printer via a keyboard, a barcode scanner, scales or other host systems and/or are recalled by the Database Connector from the host and printed.



Printer control

Drivers

To control the printer with a software other than cablabel S3, cab provides drivers in 32 / 64 bit for operating systems starting from Windows Vista, Mac OS 10.6 and Linux CUPS 1.2.



Windows¹⁾ drivers

cab printer drivers are WHQL-certified. They ensure optimum stability on the Windows operating system.

Drivers are offered on the DVD delivered with the printer and for free download at www.cab.de/en/support

Programming

Js To

JScript

To control the printer, cab has developed the embedded programming language JScript. See manual

for free download at www.cab.de/en/programming

ABC abc Basic Compiler

In addition to JScript and as an integral part of the firmware, it allows advanced printer programming before data are sent to printout. For example, external printer languages can be replaced without interfering in the current print job. Also data from other systems such as a scale, a barcode scanner or PLC can be integrated.

Integration

Printer Vendor Program

As a partner in SAP's²⁾ Printer Vendor Program, cab has developed a replace method to enable easy control of a cab printer via SAPScript from SAP R/3. Only variable data are sent to the printer by the host. Pictures and fonts that had priorly been stored in the local memory (IFFS, memory card, etc.) are merged.

Printer administration

Configuration in Intranet and Internet

The HTTP and FTP server integrated in the printer via standard programs like a web browser or FTP clients allows printer control and configuration, firmware updates and memory card administration. Via email or SNMP, the SNMP and SMTP client datagram sends status, warning and error messages to administrators and users. Time and date are synchronized by a time server.



It is possible to simultaneously manage several printers within a network. Control, configuration, firmware updates, memory card administration, data synchronization and PIN administration are supported centrally.

Database Connector

Printers connected to a network may directly access data from a central ODBC- or OLEDB-ready database and print it on a label. While printing, data can be rewritten to the database.

¹⁾ Windows is a registered trademark of Microsoft Corporation

²⁾ SAP and all corresponding logos are trademarks or registered trademarks of SAP SE

Pos.

Delivery program

Part no.

5979605.xxx

Tube labeling system

5979610.xxx Tube labeling system AXON 2/4/300

Tube labeling system AXON 2/4.3/300 100 - 240 VAC

1.1			00 - 240 VAC		
		5979615.xxx	Tube labeling system AXON 2/4/600 100 - 240 VAC		
		5979625.xxx	Tube labeling system AXON 2/4.3/300 24 - 60 VDC		
		5979630.xxx	Tube labeling system AXON 2/4/300 24 - 60 VDC		
		5979635.xxx	Tube labeling system AXON 2/4/600 24 - 60 VDC		
		5561500	System adjustment and check		
		Scope of deli	/ery		
			ype E+F, length 1.8 m ble USB, length 1.8 m		
DVD: Operation manuals Configuration manual DE/EN/FR Service manual DE/EN Spare parts list DE/EN Programming manual EN Windows printer drivers WHQL certified for Windows Vista Server 2008 Windows 7 Server 2008 R2 Windows 8 Server 2012 Windows 8.1 Server 2012 R2 Windows 10 Server 2016					
			Server 2019		
		Linux printer o	X printer drivers DE/EN/FR drivers DE/EN/FR e cablabel S3 Lite ewer nector		
Pos		Linux printer of Label software cablabel S3 Vie	X printer drivers DE/EN/FR Irivers DE/EN/FR cablabel S3 Lite ewer		
Pos. 2.7		Linux printer of Label software cablabel S3 Vio Database Coni	X printer drivers DE/EN/FR drivers DE/EN/FR e cablabel S3 Lite ewer nector		
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2.7		Linux printer of Label software cablabel S3 Vio Database Confipart no. 5977370	X printer drivers DE/EN/FR drivers DE/EN/FR e cablabel S3 Lite ewer nector Accessories SD memory card 8 GB		
2.7		Linux printer of Label software cablabel S3 Vio Database Conf Part no. 5977370	X printer drivers DE/EN/FR drivers DE/EN/FR e cablabel S3 Lite ewer nector Accessories SD memory card 8 GB USB memory stick 8 GB		
2.7		Linux printer of Label software cablabel S3 Vio Database Compart no. 5977370 5977730 5978912.001	X printer drivers DE/EN/FR drivers DE/EN		
2.7 2.8 2.9		Linux printer of Label software cablabel S3 Vio Database Conference Conferenc	X printer drivers DE/EN/FR drivers DE/EN/FR drivers DE/EN/FR de cablabel S3 Lite dewer nector Accessories SD memory card 8 GB USB memory stick 8 GB USB WLAN stick 2.4 GHz 802.11b/g/n USB WLAN stick with a rod antenna 2.4 GHz 802.11b/g/n + 5 GHz a/n/ac		
2.7 2.8 2.9 2.10		Linux printer of Label software cablabel S3 Vio Database Conference Conferenc	X printer drivers DE/EN/FR drivers DE/EN		

Modules provided for the tube labeling system

Pos. Part no. Label printers SQUIX 5977023.463 Label printer SQUIX 4.3/300M 100 - 240 VAC 5977007.463 Label printer SQUIX 4/300MP 100 - 240 VAC 5977008.463 Label printer SQUIX 4/600MP 100 - 240 VAC 5977047.463 Label printer SQUIX 4.3/300M 24 SQUIX 4.3/300M	,
5977007.463 Label printer SQUIX 4/300MP 100 - 240 VAC 5977008.463 Label printer SQUIX 4/600MP 100 - 240 VAC 5977047.463 Label printer SQUIX 4.3/300M	•
5977008.463 Label printer SQUIX 4/600MP 100 - 240 VAC 5977047.463 Label printer SQUIX 4.3/300M	
5.1 100 - 240 VAC 5977047.463 Label printer SQUIX 4.3/300M	•
5977047.463 Label printer SQUIX 4.3/300M	
24 - 60 VDC	1P
5977048.463 Label printer SQUIX 4/300MP 24 - 60 VDC	'
5977049.463 Label printer SQUIX 4/600MP 24 - 60 VDC	1
5953700 Print roller DR4-M25	
5.2 5953701 Print roller DR4-M50	
5953702 Print roller DR4-M80	
5977767 Digital I/O interface	
Pos. Part no. Tube applicator	
6.1 5979509.463 Tube applicator AXON 2	
5954180 Print roller DR4 as a transport To process flat cylindrical tube without bulges or threads protein	S
6.3 Transport roller TRV To process all types of tubes, even with caps or threads prot Both rollers are aligned to the a tube and the position of the	size of
59xxxxx Transport roller TRK To process all tubes having a c	it is not
thread protruding, if alignmen possible with a TRV transport i	oner.
thread protruding, if alignmen possible with a TRV transport of the True with a True wit	oner.

Configurate an AXON 2 tube labeling system

Please send the filled-in configurator to your cab contact or email to info@cab.de

Co	nfigurator no. (fil	ed in by cab)		Date of issue	
Cu	stomer / no			Target date	
Pe	rson in charge _			Project owner	
Ph	one _			Project controlling	
Sti	reet _				
Zip	code / City _				
En	nail _				
				-	
1.	Label	Width B	mm	T T	
		Height H	mm	1234 >	
		Type of material			
		Width of liner tape T	mm	1234 ≯	
				В	
2.	Printing method	2.1 ☐ Thermal direct			
		2.2 ☐ with a ribbon Width	m.m		
				. L1	
		Type of material			
		Winding ☐ inside ☐ out	siae	(1234 ≯ □	
3.	Tubes	Diameter D1	mm	L1 C	
		Diameter D2	mm	<u>L2</u>	
		Diameter D3	mm		
		Length L1	mm		
		Length L2	mm	C	
		Distance C	mm	L1 L2	
4.	Tube orientation	Open to \Box the right \Box the	left		
_				1234 Þ Ġ	
5.	Tube removed	☐ from a tray ☐ fron	n insertion position	C	
6.	Label printer				
6.1	□ 5977023.463	Label printer SQUIX 4.3/300MP 100	- 240 VAC	Filled in by cab:	
6.2	□ 5977007.463		- 240 VAC	practicable:	no
6.3	☐ 5977008.463	Label printer SQUIX 4/600MP 100	- 240 VAC	Name	
6.4	□ 5977047.463	Label printer SQUIX 4.3/300MP 24	- 60 VDC	Phone —	
6.5	□ 5977048.463	Label printer SQUIX 4/300MP 24	- 60 VDC	Email	
6.6	□ 5977049.463	Label printer SQUIX 4/600MP 24	- 60 VDC	Part no Name	
6.7	□ 5953700	Print roller DR4-M25 for liner tape width	is up to 25 mm		
6.8	□ 5953701 -	Druckwalze DR4-M50 for liner tape widt		Date Signature	
6.9	□ 5953702	Druckwalze DR4-M80 for liner tape widt	hs up to 60 mm		
6.10	□ 5977767	Digital I/O interface		Customer approval required after practicability check:	
7.	Tube applicator				
7.1	□ 5979509.463	Tube applicator AXON 2			
7.2	☐ 5954180				
1,2	_ 333 1100	to process flat cylindrical tubes		EIIIAIL	
7.3	□ 5979672	Transport roller TRV to process all types		Data Signatura	
7.4 7.5			s a series	DateSignature	
1.5	⊔ ೨೨೨೨೨೮೮	MM1 101 63603 110-2010		System adjustment and check:	
7.6	□ 5979567	Tray		To do this, we need to have approx. 100 tubes 1 label roll	
7. 7.1 7.2 7.3 7.4 7.5	Tube applicator □ 5979509.463 □ 5954180 □ 5979672 □ 59xxxxx □ 5535960	Tube applicator AXON 2 Print roller DR4 as a transport roller to process flat cylindrical tubes Transport roller TRV to process all types Transport roller TRK user-specific and a One-off costs for TRK	s of tubes	Name Phone Email Date Signature System adjustment and check: To do this, we need to have approx. 100 tubes	

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