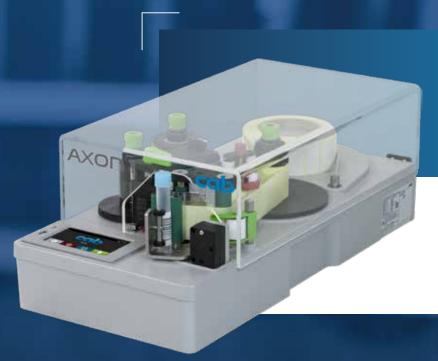
Status: 02/2020





Products need labeling

Tube labeling system



Reliable tube labeling

AXON 1 is in preparation to be available in the second half of 2020.



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

Tubes of diameters 10 to 35 mm can be processed, capped or uncapped. Printing and labeling take less than two seconds.

Self-explanatory symbols enable the device to be operated intuitively. Label rolls and the ribbon are easy to remove. If it comes to cleaning or in cases of wear, print rollers and transport rollers can be replaced easily by the operator with the help of a tool attached.

AXON 1 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 is supplied by 110 to 240 VAC voltage or 36 to 60 VDC. 24 VDC voltage may be possible on request.

Details on tube labeling





For further information see www.cab.de/en/squix



Ribbon holder

Three-part tightening axles enable the material to be replaced quickly and easily.

2 Transport rollers

They apply the labels on the tubes.

Wipe-down rollers

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

Operation panel

Operating the device is intuitive and simple with the help of self-explanatory symbols.

5 Internal rewinder

With the help of the rewinder, liner material is wound. Three-part tightening axles enable the material to be replaced quickly and easily.

6 Label pre-warning

In case a roll has reached a set diameter, a pre-warning is issued.

Coated print rollers

synthetic rubber for highly accurate print images

8 Peel-off function

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

Scanner to detect linear barcodes and 2D codes

Verification and contents are checked by a camera during labeling.

Rugged metal chassis

made of cast aluminum; basis to assemble all units

Technical data

Tube labeling Material guid			Тур			ON 1 ligned	
Printing met		Thermal	transfer			iigiieu •	
g met		Thermal				_	
Printable res	colution	mermat	dp			600	
Print speed	otation		mm/s		-	100	
Print width						54.1	
Material			up to mm	36.	.5	34.1	
Tubes	Oriontal	tion at lab	oling			vertical	
rubes			eing				
	Diamete	er			m	10 - 35	
	Length				m	32 - 130	
			of diameter			0.8	
			om bottom		ım	8 - 38	
Labels	Materia	l	Paper, plastics such as PP,			P, P(
	Width			mm 10 - 56			
	Height		from m	m	12		
	Roll dia			up to m	m	205	
	Core dia	meter		m	m	76	
	Winding	3				outside	
Liner width				m	m	25 - 60	
Ribbon	Ink side				ou	tside or in	side
	Roll dia	meter		up to m	m	80	
	Core dia	meter		m	m	25	
	Variable	length		up to	m	450	
	Width			•	ım	25 - 60	
Printer size:	s and we	ight					
Width x Heig				m	m 2	70 x 195 x 5	560
Weight				approx.	kg	12	
Interfaces					0		
RS232C			1.200 to 23	80.400 bai	ıd/8 bit	•	
USB 2.0				1,200 to 230,400 baud/8 bit Hi-speed device to connect a PC			
Ethernet			10/100 Mbit/s				
1xUSB host on the opera	ition pan	el for	Service Key, USB memory stick				
2xUSB host on the back	of the de	vice for	keyboard, barcode scanner, USB Bluetooth adapter, USB WLAN stick				
Digital I/O in	terface		8 inputs ar	nd output:	s are ar	option	
Operating d	ata						
Power suppl	У		100 - 240 V	AC, 50/60	Hz, PF	С	
			36 - 60 VDC	C, 24 VDC	on requ	ıest	
Power consu	ımption		Standby <				
Temperature	•	peration				ondensing	
humidity		tock				ondensing	
uicy	_	ransport	-25 - 60°C				
Approvals		3sport	CE, FCC Cla				
Operation p	anel		JE, 1 CC Cla	, ICLO	J, CUL	,	
Colored LCD		snlav	Screen dia	gonal	11	4.3	
COIDI EU LCD	touchul	spiay	Resolution			4.3 272 x 480	
Monitoring			resolution	VV X C	OX	212 X 48U	
Printer		pre-warni	ng	Print head	Print head voltage		
	Ribbon Label pr End of la	e-warning	g 🗆	Print head open Pinch roller open Cover open □			
		scanner					
Applicator	Applicat	tor pivote available		Peripheral error wrong tube diameter			
Fonts							
Font types internally provided 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 Condensed Bold Garuda HanWangHeiLight Monospace 821 Gwiss 721				
to be stored	TrueTyp	e fonts		Swiss 721			

	• typic	al ■ standard □ o	ption
Fonts	Суріс	at = standard = 0	ption
Character sets	Windows-1250 to -1257 DOS 437, 737, 775, 850, 85 EBCDIC 500 ISO 8859-1 to -10 and -1: WinOEM 720 UTF-8 Macintosh Roman		
	DEC MCS KOI8-R Western European Eastern European Chinese simplified Chinese traditional	Cyrillic Greek Latin Hebrew	
Bitmap fonts	Thai Widths and heights 1 - 3 Zoom factors 2 to 10 Orientations 0°, 90°, 180		
Vector / TrueType fonts	Widths and heights 0,9 - Variable zoom		
Font styles	Orientation 360° in steps bold, italic, underlined, depending from the for	outline, inverse	
Character spacing	variable or monospace	it types	
Graphics	variable of monospace		
Graphic elements	Lines, arrows, rectangles		
Graphic formats	PCX, IMG, BMP, TIF, MAC		
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 cod of Deutsche Post Codabar JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0	le
2D and stacked	DataMatrix DataMatrix Rect. Extensi QR-Code Micro QR-Code GS1 QR-Code GS1 DataMatrix PDF 417 All codes are variable in width and ratio; oriental check digit, plain text pr are options depending f	GS1 DataBar Aztec Codablock F Dotcode RSS 14 truncated, lim stacked/omnidirectic terms of height, modula tions 0°, 90°, 180°, 270° intout and start / stop co	nal r
Software			
Label software	cablabel S3 Lite cablabel S3 Pro	cablabel S3 Viewer cablabel S3 Print	
Also running with	CODESOFT, NiceLabel, B	arTender	
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	from version 10.6		
printer drivers Linux printer drivers	from CUPS 1.2		
Programming	JScript printer language	abc Basic Compiler	
Integration	SAP	Database Connector	
Emulation	ZPL (Datastream to be t		
Administration	Printer control Configuration in Intrane Network Manager (in pre		

cab uses free and Open Source Software in its products. For information see **www.cab.de/opensource**

Label software

cablabel S3 - design, print, administrate

cablabel S3 opens up the full potential of cab devices. At first, a label must be defined. Its modular design enables cablabel S3 adapt to requirements step by step. Embedded plug-ins like the JScript Viewer support features such as native JScript programming. The designer user interface synchronizes in real time, so are JScripts codes. Integrating the Database Connector or a barcode verifier are options.







Printer control



Drivers

cab provides 32 / 64 bit drivers to control a printer with software other than cablabel S3.



To run the drivers, operating systems need to be at least Windows Vista, Mac OS 10.6 and Linux CUPS 1.2.



Drivers are provided on a DVD included in the scope of delivery of a printer, and for free download on www.cab.de/en/support

Programming



JScript

cab printers embed the JScript programming language.
Free manual download on www.cab.de/en/programming

ABC abc Basic Compiler

abc in addition to JScript and as an integral firmware component enables advanced printer programming before data are edited for printout. For example, external printer languages can be replaced without intervening in the print application in progress. Data may be imported as well from other systems such as scales, barcode scanners or a PLC.

Integration



cab as a partner in this program developed a replace method to control cab printers from SAP2) R/3 using SAPScript. Only variable data are sent by a host system to a printer. They unite on the printer with the images and fonts that have been stored in the local memory (IFFS, memory card, etc.).

Stand-alone printing

Deciding for this operating mode enables a printer to select and print labels even when there is no host system connected. Labels can be designed using software such as cablabel S3 or programmed in a text editor directly on a PC. Data such as label formats, texts, graphics, as well s contents from a database can be stored on a memory card, a USB memory stick or in the printer's internal IFFS memory. Only variable data are sent by a keyboard, a barcode scanner, a scale or any other host system to a printer to be printed. It may also be recalled by the Database Connector from the host and printed.



Printer administration

Configuration in the Intranet and Internet

cab printers integrate a HTTP and FTP server. By this, a printer can be controlled and configured, firmware updated and memory cards managed using standard applications such as web browsers or FTP clients. Using SNMP/SMTP clients, the attention of administrators or operators is drawn to warnings and errors via email or SNMP datagrams. Time and date are synchronized using a time server.

Network Manager in preparation

Several printers can be managed simultaneouslyin a network, controlled and configured from one place. So are firmware updates, memory card management, data synchronization and PIN administration.

Database Connector

Printers connected to a network may access data directly from a central ODBC or OLEDB 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

Delivery program

Pos.		Part no.	Tube labeling sy	ystem
		5979600	Tube labeling sys 100-240 VAC	
	1.1	5979740	Tube labeling sys 100-240 VAC	tem AXON 1/600
1.1		5979745	Tube labeling sys 36-60 VDC, 24 VE	
		5975750	Tube labeling sys 36-60 VDC, 24 VD	
		5977767	Digital I/O interfa	ace
		5570200	Scanner CC200	
		5979765	Label pre-warning	
		5561500	System adjustm	ent and test
		Scope of deliv	ery	
DVE):	Connecting cal Instructions DE Instructions	pe E+F, length 1.8 ble USB, length 1.8	8 m
	•	Service manua	l DE/EN	
		Spare parts list Programming r		
			Windows printer	
			Windows Vista Windows 7	Server 2008 Server 2008 R2
			Windows 8	Server 2012
			Windows 8.1 Windows 10	Server 2012 R2 Server 2016
		A	(and a to an aladi an a Si	Server 2019
		Linux printer d Label software cablabel S3 Vie		E/EN/FK
		Database Conn	ector	

Pos.	Part no.	Accessories
2.7	5977370	SD memory card 8 GB
2.8	5977730	USB memory stick 8 GB
2.9	5978912.001	USB WLAN stick 2.4 GHz 802.11b/g/n
2.10	5977731	USB WLAN stick with a rod antenna 2.4 GHz 802.11b/g/n + 5 GHz a/n/ac
2.11	5977732	USB Bluetooth adapter
3.2	5917651	I/O interface connector SUB-D 25 pins
3.4	5955710	Hand switch TR2
4.1	5550818	Connecting cable RS232C 9/9 pins, length 3 m

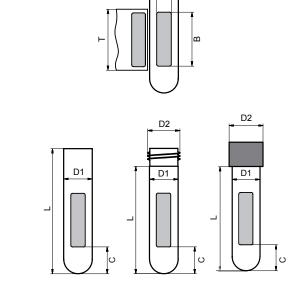
Check list tube labeling system AXON 1

Send the completed form to your cab contact person or email to info@cab.de

Pi Pi Si Zi			——————————————————————————————————————
1.	Label	Width B	mm
		Height H	
		Type of material	
		Width of liner tape T	
2.	Printing method	1 2.1 □ Thermal direct	
		2.2 ☐ with a ribbon	
3.	Ribbon	Width	mm
		Type of material	
4.	Tubes	Winding inside outside Diameter D1 Diameter D2 Length L Distance C	mm mm
5.	Tube labeling s	ystem	
5.1	□ 5979600.xxx	Tube labeling system AXON 1/300 100 - 240	VAC
5.2	☐ 5979740.xxx		VAC
5.3	□ 5979745.xxx	Tube labeling system AXON 1/300 36 - 60	VDC
5.4	☐ 5979750.xxx	Tube labeling system AXON 1/600 36 - 60	VDC
5.5	□ 5977767	Digital I/O interface	
5.6	□ 5570200	Scanner CC200	
5.7	□ 5570200	Label pre-warning	



Date of issue	
Target date	
Project owner	
Project controlling	
Configurator no.	
(filled in by cab)	



practicable		\square yes	□ no
Name _			
Phone .			
Email .			
Part no.	Name		
Date .	Signature		
Customer app	roval required after pract	icability ch	eck:
Customer app	roval required after pract	icability ch □ yes	
	roval required after pract	□ yes	□ no
Name		□ yes	□ no
Name Phone		□ yes	□ no
Name Phone		□ yes	□ no
Name Phone Email		□ yes	□ no

System adjustment and check:

Filled in by cab:

To do this, we need to have approx.

100 tubes 1 label roll 1 ribbon roll Germany

cab Produkttechnik GmbH & Co KG

Karlsruhe

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cab Technologies S.à.r.l.

Niedermodern

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