Status: 09/2019





Products need labeling

Tube labeling system



AXOD 2

Made in Germany

DASCO 763-574-2275 www.dasco.com

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.

5 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

AXON 2 **AXON 2 Tube labeling system** Type 4.3 Material guide centered Thermal transfer Printing method Thermal direct 0 Printable resolution 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 during labeling horizontal Diameter 10 - 17 Length capped 38 - 105 mm Conicity (change of diameter) up to % 0.8 Labels Material Paper, plastics PP, PC Width mm 10 - 56 Height from mm 15 Roll diameter up to mm 205 Core diameter 38 - 76 Winding outside Liner material width up to mm 60 Ribbon Ink side outside or inside Roll diameter up to mm 80 Core diameter 25 mm Variable length 450 up to m Width 25 - 114 mm Printer sizes and weight Width x Height x Depth 252 x 288 x 520 mm Weight approx. kg 12 Interfaces RS232C 1,200 to 230,400 baud/8 Bit **USB 2.0** Hi-speed device to connect a PC 10/100 Mbit/s Ethernet 1xUSB host Service Key, USB memory stick on the operation panel 1xUSB host USB WLAN stick 2.4 GHz 802.11b/g/n on the operation panel 2xUSB host keyboard, barcode scanner, on the back of the device for USB Bluetooth adapter, USB WLAN stick Digital I/O interface providing 8 inputs and outputs **Operating data** 100 - 240 VAC, 50/60 Hz, PFC Power supply 24 - 60 VDC Power consumption Standby < 10 W / typical 100 W +5 - 40°C / 10 - 85 %, not condensing Temperature / Operation humidity 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 **Operation panel** Colored LCD touch display Screen diagonal 4.3 Resolution W x H 272 x 480 рх **Monitoring** Ribbon pre-warning Periphery error End of ribbon Print head voltage Direction of ribbon winding Print head temperature End of labels Print head open Pinch roller open Fonts Font types 5 Bitmap fonts: 7 vector fonts: AR Heiti Medium GB-Mono internally 12 x 12 dots provided 16 x 16 dots CG Triumvirate Condensed Bold 16 x 32 dots Garuda HanWangHeiLight OCR-A

www.dasco.com 800-927-7701

	typical	O possible	■ standard	\square option		
Fonts						
Character sets	DOS 437, 737 EBCDIC 500	ISO 8859-1 to -10 and -13 to -16 WinOEM 720 UTF-8 MacRoman DEC MCS				
	Western Euro Eastern Euro Chinese simp Chinese trad Thai	pean plified	Cyrillic Greek Latin Hebrew Arabic			
Bitmap fonts	Zoom factor	neights 1 - 3 m s 2 to 10 0°, 90°, 180°, 2				
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 types					
Character spacing Graphics	variable or n	nonospace				
Graphic elements		s, rectangles, c ed with fading	ircles, ellipses			
Graphic formats Barcodes	PCX, IMG, BN	иР, TIF, MAC, G	IF, PNG			
	CI- 20 C	1- 02	Laterday and 2/F			
Linear	Code 39, Cod Code 39 Full Code 128 A, EAN 8, 13 EAN/UCC 128 EAN/UPC Ap EAN/UPC Ap FIM HIBC	ASCII B, C 8/GS1-128 pendix 2	Interleaved 2/5 Ident and routing of Deutsche Post Codabar JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0			
2D and stacked	QR code Micro QR code GS1 QR code GS1 DataMar PDF 417 All codes are width and ra check digit,	de trix variable in ter tio; orientatio plain text print	Micro PDF 417 UPS MaxiCode GS1 DataBar Aztec Codablock F RSS 14 truncated stacked / omnidi rms of height, mo ns 0°, 90°, 180°, 27 out and start / sto	dular 70° op code		
Software			,			
Label software	cablabel S3		cablabel S3 View			
	cablabel S3		cablabel S3 Print	t 🗆		
	CODESOFT,	NiceLabel, Ba	rTender			
Stand-alone operation Windows printer drivers WHQL certified for	Windows Vis 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	2017012013			
Linux printer drivers	from CUPS 1					
Programming	JScript print abc Basic Co					
Integration	SAP Database Co					
Administration	Printer control Configuration in Intranet and Internet Network Manager (in preparation)					

Monospace 821 Swiss 721 Swiss 721 Bold

OCR-B

to be stored | TrueType fonts

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

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

Delivery program

Tube labeling system

		5979605.xxx	Tube labeling system AXON 2/4.3/30 100 - 240 VAC			
1.1		5979610.xxx	Tube labeling system AXON 2/4/30 100 - 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 delivery Tube labeling system Power cable Type E+F, length 1.8 m Connecting cable USB, length 1.8 m Operation manual DE/EN					
DVD	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 Apple Mac OS X printer drivers DE/EN/FR Linux printer drivers DE/EN/FR Label software cablabel S3 Lite cablabel S3 Viewer Database Connector					
Pos.	•	Part no.	Accessories			
2.7		5977370	SD memory card 8 GB			
2.7		5977370 5977730	SD memory card 8 GB USB memory stick 8 GB			
			·			
2.8		5977730	USB memory stick 8 GB USB WLAN stick			
2.8		5977730 5978912.001	USB memory stick 8 GB USB WLAN stick 2.4 GHz 802.11b/g/n USB WLAN stick with a rod antenna			
2.8		5977730 5978912.001 5977731	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			
2.8 2.9 2.10 2.11		5977730 5978912.001 5977731	USB wlan stick 2.4 GHz 802.11b/g/n 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 USB Bluetooth adapter			
2.8 2.9 2.10 2.11		5977730 5978912.001 5977731 5977732 5917651	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 USB Bluetooth adapter I/O interface connector SUB-D 25 pins			

Modules provided for the tube labeling system

	ue laui	<u></u>	<u>′</u>
Pos		Part no.	Label printers SQUIX
5.1		5977023.463	Label printer SQUIX 4.3/300MP 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 4.3/300MP 24 - 60 VDC
		5977048.463	Label printer SQUIX 4/300MP 24 - 60 VDC
		5977049.463	Label printer SQUIX 4/600MP 24 - 60 VDC
		5953700	Print roller DR4-M25
5.2		5953701	Print roller DR4-M50
		5953702	Print roller DR4-M80
5.3	D	5977767	Digital I/O interface
Pos		Part no.	Tube applicator
6.1	Avona de		
6.1		5979509.463	Tube applicator AXON 2
6.2		5979509.463 5954180	Tube applicator AXON 2 Print roller DR4 as a transport roller To process flat cylindrical tubes without bulges or threads protruding
			Print roller DR4 as a transport roller To process flat cylindrical tubes
6.2		5954180	Print roller DR4 as a transport roller To process flat cylindrical tubes without bulges or threads protruding Transport roller TRV To process all types of tubes, even with caps or threads protruding. Both rollers are aligned to the size of
6.2		5954180 5979672	Print roller DR4 as a transport roller To process flat cylindrical tubes without bulges or threads protruding Transport roller TRV To process all types of tubes, even with caps or threads protruding. Both rollers are aligned to the size of a tube and the position of the label. Transport roller TRK To process all tubes having a cap or thread protruding, if alignment is not
6.2		5954180 5979672 59xxxx	Print roller DR4 as a transport roller To process flat cylindrical tubes without bulges or threads protruding Transport roller TRV To process all types of tubes, even with caps or threads protruding. Both rollers are aligned to the size of a tube and the position of the label. Transport roller TRK To process all tubes having a cap or thread protruding, if alignment is not possible with a TRV transport roller.

Configurate an AXON 2 tube labeling system

Please send the filled-in configurator to your Dasco contact or email to info@dasco.com

	nfigurator no. (fi stomer / no					Date of issue Target date			
Pe	rson in charge					Project owner			
	one _					Project contro			
	reet						9		
	code / City _								
_	nail								
EII	_								
1.	Label	Width B			mm		T		
		Height H		1	mm		1234 ➤		
		Type of mate	rial			/		—	
		Width of liner	rtape T		mm	(1234 >	<u></u> =‡	
2.	Printing method	d 2.1 □ Therm	nal direct				B		
	2.2 □ with a ribbon								
		Width	Width		_mm				
		Type of mate	rial			۲	L1	-	
		Winding	□ inside	□ outside		(1234 ≯ 0	7	
3.	Tubes	Diameter D1		r	mm		L1 C	_	
	Diar		Diameter D2		mm			2	
		Diameter D3		r	mm			-	
		Length L1		r	mm	(1234 ≯ ☐	D2	
		Length L2		r	mm	`	C	 	
		Distance C		r	mm	F	L1 F	=	
4.	Tube orientation		☐ the right	□ the left			<u>-</u> '	_2	
		·	o o			<i>Y</i>	1234 > 7	D3	
5.	Tube removed		☐ from a tray	\square from insertion	position	`	\ <u>\</u>	•	
6.	Label printer						_ C	_	
6.1	□ 5977023.463	Label printe	er SQUIX 4.3/300MP	100 - 240 VAC		Filled in by cab	:		
6.2	□ 5977007.463	•	er SQUIX 4/300MP	100 - 240 VAC		practicable:		□ yes	□ no
6.3	□ 5977008.463	Label printe	er SQUIX 4/600MP	100 - 240 VAC		Name _			
6.4	□ 5977047.463	Label printe	er SQUIX 4.3/300MP	24 - 60 VDC		Phone -			
6.5	□ 5977048.463		er SQUIX 4/300MP	24 - 60 VDC		Email _			
6.6	□ 5977049.463	Label printe	er SQUIX 4/600MP	24 - 60 VDC		Part no.	Name		
6.7	□ 5953700	Print roller [DR4-M25 for liner ta	pe widths up to 25 r	mm				
6.8	□ 5953701			ape widths up to 50		Date _	Signature		
6.9	□ 5953702	Druckwalze	DR4-M80 for liner t	ape widths up to 60	mm				
6.10	□ 5977767	Digital I/O ir	nterface			Customer app	roval required after pra	octicability che □ yes	eck: □ no
7.	Tube applicator	r				Name _		•	
7.1	□ 5979509.463	Tube applica	ator AXON 2			Phone _			
7.2	□ 5954180		DR4 as a transport r lat cylindrical tubes			Email _			
7.3	□ 5979672		oller TRV to process						
7.4	☐ 59xxxxx	•	oller TRK user-speci	fic and as a series		Date _	Signature		
7.5	□ 5535960	One-off cost	ts for TRK			System adjust	ment and check		
7.6	7.6 □ 5979567 Tray			System adjustment and check: To do this, we need to have approx. 100 tubes					
								1 label roll	
TA7TA	THE dance of	om 90	00 027 7701	info@das	CO CO1	m		1 ribbon roll	l

Germany

cab Produkttechnik GmbH & Co KG

Phone +49 721 6626 0

www.cab.de

USA

cab Technology, Inc. Chelmsford, MA Phone +1 978 250 8321 www.cab.de/us

USA

Dasco Label 10370 Flanders Street NE Minneapolis, MN 55449 763-574-2275 800-927-7701 info@dasco.com www.dasco.com



