Status: 03/2023

Labeling systems
for tubes and vials

AXON
Made in Germany

Reliable tube and vial labeling using AXON

Tubes

Vials

Samples identified in real time

Unique labeling enables samples be assigned quick and reliably in labs.

In practice, self-adhesive labels are applied individually to tubes or vials. 1D or 2D encoding enables samples be processed fully automated in transport and filing.

AXON has been designed for direct thermal and thermal transfer label printing. 300 dpi or 600 dpi print resolutions favor sharp-edge and high-contrast print images. The smallest codes and fonts can be verified reliably.

A labeling cycle takes less than two seconds.

Tubes and vials with or without a closure cap can be inserted by hand or automated by a handling system.

Symbols on the control panel support AXON be operated intuitively. Replacing a label roll or a ribbon is no big deal. In cases of cleaning or wear, print rollers and transport rollers are easy to remove using a tool attached.

RS232, USB, Ethernet, WLAN and Bluetooth ensure data be transferred. AXON integrates to Laboratory Information Management Systems (LIMS).

If no PC is plugged, variable data can be entered on a control panel, with the help of a keyboard or a scanner.

110 VAC to 240 VAC input voltage at 50 / 60 Hz, 24 VDC to 60 VDC are options

See further information on
www.cab.de/axon1

See further information on
www.cab.de/axon2

AXON 1		AXON 2
Modules of a SQUIX 2P label printer and modules of the tube applicator are united in one chassis.	**Printer**	Standard SQUIX 4MP label printer providing an AXON 2 applicator
no more than 56 mm	**Label widths**	no more than 110 mm
vertical	**Tube / vial orientation**	horizontal
Once tubes or vials have been inserted to the retainer, they can be filled and sealed.	**Particularity**	Identified tubes and vials can be ejected automatically, for example to a tray.
7 mm to 26 mm, 16 mm to 38 mm if options are provided	**Tube / vial diameters**	10 mm to 22 mm, 7 mm to 12 mm if options are provided
20 mm to 130 mm	**Tube / vial lengths**	25 mm to 120 mm
Warning on a label roll ending Codes be verified	**Options**	-

AXON 1 tube labeling systems

1 **Ribbon retainer**
Materials are easy to remove with the help of a three-part tightening axle.

2 **Antistatic brush**
Electrostatic charge dissipates after printing, in particular if plastic materials are in use.

3 **Transport roller**
Labels are applied to tubes or vials.
Height setting according to the length of a tube or vial

4 **Control panel**
Intuitive operation using self-explanatory symbols
Rotation in steps of 90° by software command

5 **Internal liner rewind unit**
Materials are easy to remove with the help of a three-part tightening axle.

6 **Print roller**
Synthetic rubber favors highly accurate print images.

7 **Peel-off plate, extended**
It promotes labels be applied reliably to tubes or vials.

8 **Pinch roller**
Tubes or vials are pressed against the transport roller as labels are applied.

9 **Solid cast aluminum chassis**
Base of all components

10 **Base plate**
Height setting enables labels be located accurately to target positions on tubes or vials.

processing labels 5 mm to 25.4 mm wide

Small tubes or vials can be inserted more easily.

Options provided for AXON 1 tube labeling systems

3.1

Cast aluminum cover
It prevents from contamination.
A large inspection window is provided.

3.2

CC200-AXON code verifier
1D* codes are checked by a camera.
One code per label can be verified in terms of readability (GOODBAD). Results are compared with the print data (VERIFY).

*2D codes in preparation

3.3

Warning on a label roll ending, in preparation
Remaining roll diameters are detected by a sensor.
The I/O interface indicates predefined minimum values.
Diameters may be requested or displayed also using data interfaces.

3.4

K Type peel-off plate, customer-specific
If closure caps interfere with a peel-off plate, adaption is required.

3.5

3.6

1 **24 VDC - 60 VDC input voltage**
Instead of standard power supply, a 24 VDC to 60 VDC module can be installed. A mating plug is provided on delivery.

2 **Digital 24 VDC I/O interface**
SUB-D socket connector, 25 pins

AXON 2 tube applicator

See information
on SQUIX 4MP label printers
www.cab.de/en/squix

1 Peel-off plate
Adapted specifically to tubes and vials

2 TRV 14 transport roller (Ø 14 mm)
Labels are applied to tubes or vials of diameters 10 mm to 22 mm. By moving the roller along the shaft to specified positions, closure caps or protruding threads remain located beside the roller.

Operations require labels no more than 56 mm wide and a Type 56 peel-off plate. In cases of smaller diameters or wider labels, adapted transport rollers are provided as options.

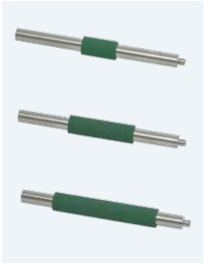
3 Pinch rollers
Aligned according to the length of a tube or vial
Tubes or vials are pressed against the transport roller as labels are applied.

4 Swivel arms providing a stop
Axial setting according to the length of a tube or vial and the label position

5 Material replacement
Pivoting the applicator simplifies labels or ribbons be replaced.

6 Tray
Tubes or vials ejected automatically after printing are collected.

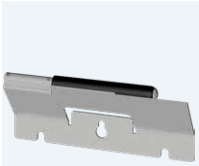
Options provided for SQUIX 4MP label printers



Slim DR4-M print rollers

If narrow labels are in use, accurate print images require adapted print rollers. Enhanced roller wear and contamined print heads are avoided, so are errors during label feed.

DR4-M30 - labels no more than 25.4 mm wide
DR4-M60 - labels no more than 56.0 mm wide
DR4-M80 - labels no more than 76.0 mm wide



Peel-off plates

Feeding below a pulley promotes labels be dispensed reliably.
Type 56.1 - labels nor more than 56 mm wide (Ø14 mm)*
Type 56.2 - labels nor more than 56 mm wide (Ø18 mm)
two pressure rollers Ø19 mm are included
Type 110 - labels no more than 110 mm wide (Ø14 mm)
K Type - customer-specific, if closures of tubes or vials interfere with a standard peel-off plate

*Included in scope of delivery

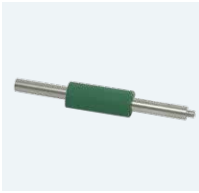
1 24 VDC - 60 VDC input voltage

Instead of standard power supply,
a 24 VDC to 60 VDC module can be installed.

2 24 VDC digital I/O interface

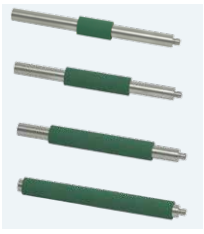
SUB-D socket connector, 25 pins

Options provided for the AXON 2 tube applicator



TRV 18 transport roller (Ø 18 mm) for labels as wide as 56 mm

Labels are applied to tubes or vials of diameters 7 mm to 12 mm. By moving the roller along the shaft to specified positions, closure caps or protruding threads remain beside.
A type 56.2 peel-off plate is required for operation.



Transport rollers

If tubes with diameters 10 mm to 22 mm are in use

Type	maximum label width	peel-off plate
DR4-M30	25.4 mm	56 mm
DR4-M60	56.0 mm	56 mm
DR4-M80	76.0 mm	110 mm
DR4	110 mm	110 mm

TRK transport roller, customer-specific
If tube or vial dimensions do not coincide with specified transport rollers

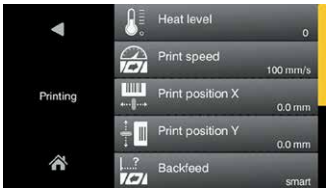
Type 56, type 110 or K Type peel-off plates are required.

Control panel

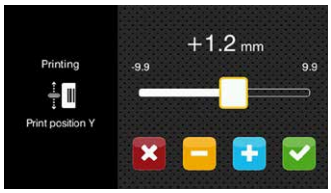
Intuitive operation
Settings are easy to configure using self-explanatory symbols.

1. **LED:** Power ON
2. **Status bar:** Receive data, record datastream, warning on a ribbon ending, SD memory card / USB stick plugged, Bluetooth, WLAN, Ethernet, USB slave, Time
3. **Printer status:** Ready, pause, number of labels printed on a print job, label in peel-off position, awaiting external start signal
4. **USB slot** to plug a service key or a memory stick, to store data in the internal IFFS printer memory
5. **Operation**
   - Print and apply labels step by step
   - Jump to menu
   - Reprint the last label
   - Interrupt and continue a print job
   - Stop and delete all print jobs
   - Label feed

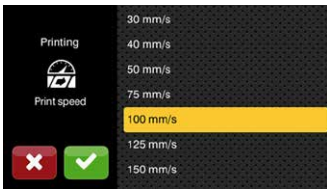
Setup options



Print parameters



Print positions Y



Print speeds

Landscape or portrait display
depending on the orientation of assembly

AXON 1 tube labeling system

Rotation in steps of 90° by software command

SQUIX label printer representing AXON 2

Video tutorials

See AXON 1 videos on
www.cab.de/en/axon1-videos

See AXON 2 videos on
www.cab.de/en/axon2-videos

Interfaces

1. Slot to plug a **SD memory card**
2. **2 USB hosts** to plug a service key, a USB stick, a keyboard, a barcode scanner, an USB Bluetooth adapter, an USB WLAN stick or an external control panel
3. **USB 2.0 Hi-speed** to plug a PC
4. **Ethernet 10/100 Mbit/s**
5. **RS232-C** 1,200 to 230,400 Baud / 8 Bit

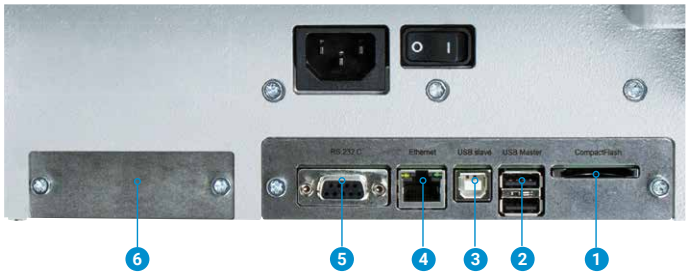
Options

6. **Digital I/O interface**
   SUB-D socket connector, 25 pins
   compliant with IEC/EN 61131-2, Type 1+3
   Inputs and outputs are galvanically isolated and protect from reverse polarity. Outputs are short-circuit proof.

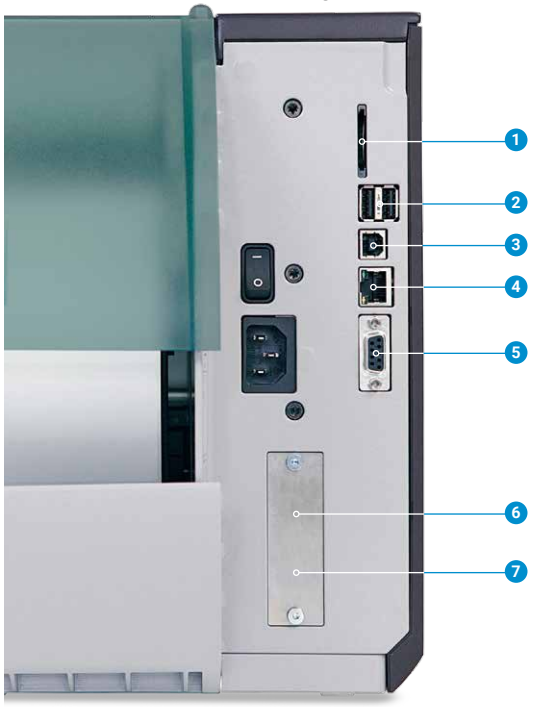
PNP inputs	PNP, NPN outputs
Start printing / applying a label	Device ready
Print initial label	Print data available
Reprint	Initial position / upper end limit
Delete print job	Paper feed ON
Label removed	Label in peel-off position
Stop printing / applying a label	Labeling position / lower end limit
Label feed	Warning on a ribbon ending
Pause	Warning on a label roll ending*
Reset	Ribbon / Label roll ending
	Collective error

*AXON 1 only

AXON 1 tube labeling system



SQUIX label printer representing AXON 2



Accessories

They are plugged or screwed to a printer by the customer.

2.7		**SD memory card**
2.8		**USB stick**
2.9		**USB WLAN stick** 2.4 GHz 802.11b/g/n Hotspot or infrastructure mode
2.10		**USB WLAN stick with a rod antenna** 2.4 GHz 802.11b/g/n + 5 GHz 802.11a/n/ac Hotspot or infrastructure mode Extended range of operation
2.11		**USB Bluetooth adapter**
2.12		**I/O interface plug** SUB-D, 25 pins All control signals can be attached to the I/O interface using clamping screws.

2.13		**External operation panel** If the operation panel of a printer cannot be accessed, an additional external one can be plugged. Same functionality as on the printer Landscape or portrait mode Operability as desired on the external operation panel or on the printer
		Printer connectivity: USB 2.0 Hi-Speed device cab provides specified **connecting USB cables** for power supply. Lengths are 1.8 m to 16 m.
2.14		**TR2 hand switch** A digital I/O interface is required
4.1		**Connecting RS232-C cable** 9/9 pins, 3 m

Technical data

● typical ○ possible ■ standard ☐ option

Tube labeling system		Type	AXON 1.1		AXON 1.2		Label printers providing AXON 2		
							SQUIX 4.3MP	SQUIX 4MP	SQUIX 4MP
Print head									
Print method	Thermal transfer		●	●	●	●	●	●	●
	Direct thermal		●	–	●	–	●	○	–
Print resolution		dpi	300	600	300	600	300		600
Print speed		mm/s	100	100	100	100	150		150
Print width		mm max.	25.4	25.4	56.9	54.1	108.4	105.7	105.7
Material									
Tubes / Vials	Orientation at the time of a label be applied		vertical				horizontal		
	Diameter	mm	7 - 26, 16 - 38 if options are provided				10 - 22, 7 - 12 if options are provided		
	Length, closure cap included	mm	20 - 130				25 - 120		
	Conicity (change in diameter)	% max.	0.8				0.8		
Labels[1]	Material		Paper, plastics such as PET, PP				Paper, plastics such as PET, PP		
	Width	mm	5 - 25.4		5 - 56		5 - 56, 5 - 110 if options are provided		
	Height	mm at least	12				12		
	Thickness	mm at least	0.05				0.05		
	Roll diameter	mm max.	205				205		
	Core diameter	mm	76				38 - 76		
	Winding		outside				outside		
Liner	Width	mm	16 - 30		24 - 60		9 - 60, 9 - 114 if options are provided		
	Thickness[2]	mm at least	0.05				0.05		
Ribbon	Coating		outside or inside				outside or inside		
	Roll diameter	mm max.	80				80		
	Core diameter	mm	25				25		
	Length	m max.	600				600		
	Width	mm	25 - 38.1		25 - 60		25 - 114		
Printer dimensions and weights									
Width x Height x Depth		mm	270 x 195 x 560				252 x 288 x 520		
Weight		kg approx.	12				12		
Label sensors / Position indicators									
Transmissive sensor		to detect	labels or punch marks and materials ending, print marks on transparent materials						
Reflective sensor	bottom or top reflex	to detect	labels and materials ending, print marks on non-transparent materials						
Sensor distance	to the contact edge left-aligned	mm	8		5 - 12		-		
	center to the contact edge centered	mm	-		-		0 - 55		
Interfaces									
RS232-C 1,200 to 230,400 Baud / 8 Bit			■						
USB 2.0 Hi-speed to plug a PC			■						
Ethernet 10/100 Mbit/s			LPD, RawIP printing, SOAP web service, OPC UA, WebDAV DHCP, HTTP / HTTPS, FTP / FTPS, TIME, NTP, Zeroconf, SNMP, SMTP, VNC						
1 USB host on the control panel		to plug a	service key, USB stick						
2 USB hosts on the back of the device		to plug a	keyboard, barcode scanner, USB Bluetooth adapter, USB WLAN stick						
Digital 24 VDC I/O interface			☐						
Operational data									
Voltage	100 - 240 VAC, 50 / 60 Hz, PFC		■						
	24 - 60 VDC		☐						
Power input			< 10 W in standby / 100 W are typical						
Temperature / Humidity		In operation	+5 - 40°C / 10 - 85 %, not condensing						
		On stock	0 - 60°C / 20 - 85 %, not condensing						
		In transport	–25 - 60°C / 20 - 85 %, not condensing						
Approvals			CE (In-vitro), FCC Class A, ICES-3, cULus, CB				CE (In-vitro), FCC Class A, ICES-3, cULus, CB		
			further approvals on request				CCC, BIS, BSMI, KC-Mark, CoC Mexico		
Control panel									
LCD color touchscreen	Screen diagonal	"	4.3						
	Resolution - Width x Height	px	272 x 480						

[1] Limitations may apply when using small labels, thin materials or strong adhesive. Critical applications need testing.
[2] Peeling labels off a liner requires liner materials not thicker than the labels.

Technical data

■ standard ☐ option

Setup options		
	Print Labels Ribbon Label peel-off Apply labels Interfaces Error	Region: - Language - Country - Keyboard - Time zone Time Display: - Brightness - Low-power mode - Orientation Interpreter
Status bar		
	Receive data Record datastream Warning on a ribbon ending SD memory card plugged USB stick plugged	Bluetooth WLAN Ethernet USB slave Time
Technical control		
	Ribbon winding Warning on a ribbon ending Ribbon ending Label roll ending Tube / Vial diameter Tube / Vial available Warning on a label roll ending Cover closed*	Print head voltage Print head temperature Print head open Pinch roller open Peripheral error Code verifier*
		*AXON 1 only
Test routines		
System check	when turning on the device print heads are also detected	
Info display, test printout, analysis	Status printout Fonts list List of devices WLAN status	Test grid Label profile List of events Monitor mode
Status notifications	- Printout of device figures, such as print durations or hours of operation - Device status request by software command - Indication of errors related to a network, barcode or periphery, missing links, etc.	
Fonts		
Internal	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 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, traditional Chinese, simplified Thai	Cyrillic Greek Latin Hebrew Arabian
Bitmap	Widths and heights 1 - 3 mm Zoom factors 2 - 10 0°, 90°, 180°, 270° orientations	
Vector / TrueType	Widths and heights 0.9 - 128 mm Continuous zoom 360° orientation in steps of 1°	
Font styles	Bold, italic, underlined, outline, inverse - depending on the font type	
Character pitch	Variable or monospace	

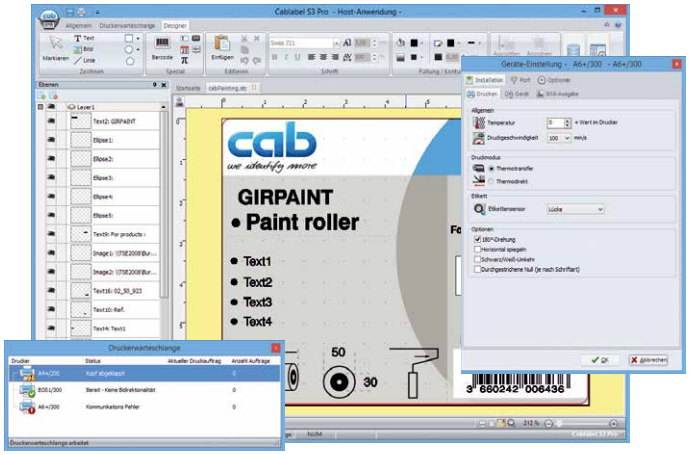
Graphics		
Elements	Lines, arrows, rectangles, circles, ellipses - filled and gradient	
Formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG	
Codes		
1D barcodes (linear)	Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C EAN 8, 13 Interleaved 2/5	
2D and stacked codes	DataMatrix DataMatrix Rectangle Extension QR code Micro QR code UPS MaxiCode Codablock F Request for further codes.	
	Codes be verified by a CC200 verifier requires approval depending on code types, sizes and contents. Check digits, plain text printout and start/stop encoding are options depending on the code type.	
Software		
Label software	cablabel S3 Lite cablabel S3 Viewer cablabel S3 Pro cablabel S3 Print	■ ■ ☐ ☐
Running also with	CODESOFT NiceLabel BarTender	AXON 2 only
Stand-alone operation		■
Windows printer drivers for	Windows 10 Windows 11 Server 2016 Server 2019 Server 2022 Certification WHQL in preparation	■
Apple printer drivers	Mac OS 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 / Internet	■ ■

Free and Open Source software are part of cab products.
For information see **www.cab.de/opensource**

cablabel S3 software

Design, print, administrate

cablabel S3 opens up the full potential of cab devices.
If designing a label, the modular software adapts to requirements. Plugins are provided, such as the JScript Viewer to support native JScript programming. The user interface and the JScript code synchronize in real time. Features such as the Database Connector can be included, so can barcode verifiers.



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

Stand-alone printing

Printers in this mode of operation are able to select labels and print them when no host is connected.

Labels are designed on a PC, using software such as cablabel S3 or a text editor. Label formats, contents, graphics and data off a database are stored on a memory card, a USB stick or in the internal IFFS printer memory.

Only variable data are sent to a printer from a host system such as a keyboard, a barcode scanner or a scale and/or requested from a host by the Database Connector and printed.

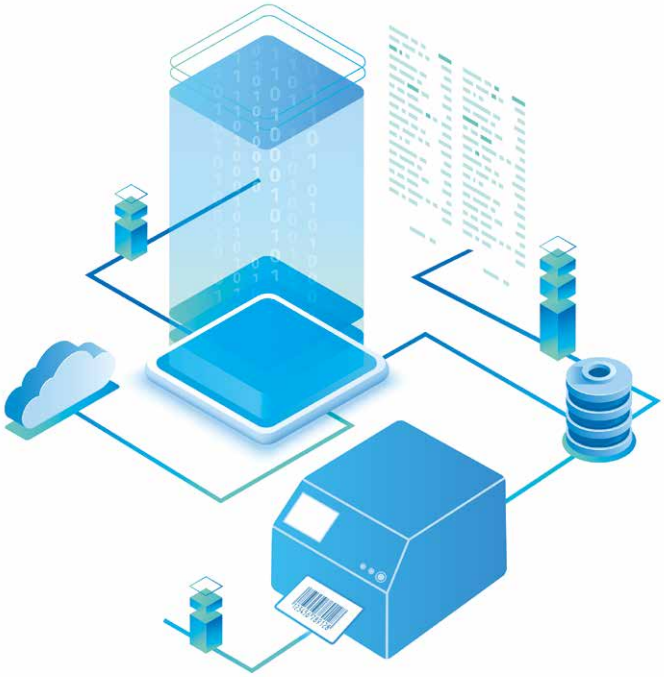
OPC UA

The latest cab printers are ready to interact with machines and components of different manufacturers in industrial plants.

An OPC UA server and an OPC UA client are part of the firmware.

The OPC UA server enables a printer be configured and controlled and dynamic print data be edited using a selected programming interface.

The OPC UA client enables data on other OPC UA-ready machines be read and included on a label design.
No additional software is required.



Printer control

Drivers

cab provides drivers to control a printer with software other than cablabel S3.

Free download on **www.cab.de/en/support**

Programming

JScript
cab printers embed JScript language.
Download free manual on **www.cab.de/en/programming**

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

Integration

Printer Vendor program
cab as a member of this program developed a replace method for controlling cab printers from SAP[1] R/3 using SAPScript. Only variable data are sent by a host system to a printer. They add on the printer to local images and fonts (IFFS, memory card, etc.).

Step 1		Step 2		Step 3
Create a label and a replace file using cablabel S3	›	Take the replace file and replace variable data using SAPScript	›	Printout from SAP

[1] SAP and all its corresponding logos are trademarks or registered trademarks of SAP SEE

Printer administration

Configuration on the Intranet / Internet

Integral HTTP / FTP servers enable a printer be controlled or configured, firmware be updated and memory cards be administrated using standard applications such as a web browser or a FTP client.
Administrators and operators on behalf of SNMP / SMTP are notified of states, alerts and errors by email or SNMP datagrams. Time and date are synchronized by a time server.

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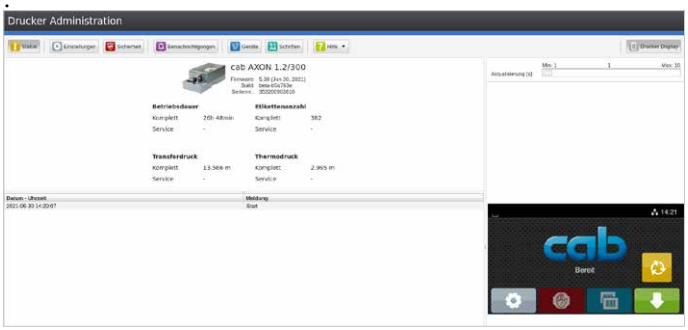


Database Connector

Printers in a network may access data from a ODBC / OLEDB database and print it on labels. Data can be rewritten to a database while print jobs are in progress.

Delivery program

AXON 1 tube labeling systems

Pos.		Item no.	Designation
1.1		**5984920.xxx**	AXON 1.1/300 tube labeling system
1.2		**5984930.xxx**	AXON 1.1/600 tube labeling system
1.3		**5979600.xxx**	AXON 1.2/300 tube labeling system
1.4		**5979740.xxx**	AXON 1.2/600 tube labeling system
		5561500	System aligned and checked using customer materials

xxxxxxx.250 system providing options

AXON 2 tube labeling systems

Pos.		Item no.	Designation
1.1		**5977023.xxx**	SQUIX 4.3/300MP label printer
		5977007.xxx	SQUIX 4/300MP label printer
		5977008.xxx	SQUIX 4/600MP label printer
6.1		**5987150.xxx**	AXON 2 tube applicator providing a Type 56.1 peel-off plate (Ø14 mm) a TRV 14 transport roller a tray
		5561500	System aligned and checked using customer materials

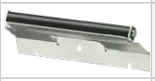
xxxxxxx.250 system providing options

Options provided for AXON 1 tube labeling systems

Pos.		Item no.	Designation
3.1		**5988215.xxx**	Cover
3.2		**5988255.250**	CC200-AXON code verifier
3.3		**5979765.250**	Warning on a label roll ending in preparation
3.4		**59xxxxx.250**	K Type peel-off plate
3.5		**5551407.250**	DC/DC converter 24 - 60 VDC in preparation
3.6		**5977767.xxx**	Digital 24 VDC I/O interface

xxx - .250 assembled to a system
.001 separate delivery as an accessory

Options provided for SQUIX label printers

Pos.		Item no.	Designation
2.1		**5953700.xxx**	DR4-M30 print roller
		**5953701.xxx**	DR4-M60 print roller
		**5953702.xxx**	DR4-M80 print roller
2.2		**5987212.xxx**	Type 56.2 peel-off plate (Ø18 mm) including two pressure rollers Ø19 mm
2.3		**5979925.xxx**	Type 110 peel-off plate
2.4		**59xxxxx.250**	K Type peel-off plate
2.5		**5551407.250**	DC/DC converter 24 - 60 VDC in preparation
2.6		**5977767.xxx**	Digital 24 VDC I/O interface

xxx - .250 assembled to a system
.001 separate delivery as an accessory

Tube labeling systems - Scope of delivery
Tube labeling system Type E+F power cable, 1.8 m Connecting USB cable, 1.8 m Instructions DE/EN

Provided online
https://setup.cab.de/en Instructions Configuration manuals DE/EN/FR Service manuals DE/EN Spare parts lists DE/EN Programming manual EN Windows printer drivers for Windows 10 Server 2016 Windows 11 Server 2019 Server 2022 Certification WHQL in preparation Mac OS X printer drivers DE/EN/FR Linux printer drivers DE/EN/FR cablabel S3 Lite software cablabel S3 Viewer Database Connector

Options provided for the AXON 2 tube applicator

Pos.		Item no.	Designation
5.1		**5987151.xxx**	TRV 18 transport roller
5.2		**5953700.xxx**	DR4-M30 print roller
		**5953701.xxx**	DR4-M60 print roller
		**5953702.xxx**	DR4-M80 print roller
		**5954180.xxx**	DR4 print roller
5.3		**59xxxxx.250**	TRK transport roller
		5535960	TRK one-off costs

xxx - .250 assembled to a system
.001 separate delivery as an accessory

Options are parts or components to perform special functions. They are assembled in addition to or instead of standards. In cases of options be assembled ex factory, the part numbers are added by .250. Options delivered separately are added by .001.

Delivery program

AXON 1 / SQUIX accessories

Pos.		Item no.	Designation
2.7		**5977370**	SD memory card
2.8		**5977730**	USB memory stick
2.9		**5978912**	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
2.12		**5917651**	I/O interface plug SUB-D, 25 pins
2.13		**6010186**	External control panel
		**5907718.850** **5907730.850** **5907750.850** **5907760.850** **5907765.850**	Connecting USB cable, 1.8 m Connecting USB cable, 3 m Connecting USB cable, 5 m Connecting USB cable, 11 m Connecting USB cable, 16 m
2.14		**5955710**	TR2 hand switch
4.1		**5550818**	Connecting RS232-C cable 9/9 pins, 3 m

AXON 1 wear parts

Pos.		Item no.	Designation	dpi
		**5977384.001** **5977385.001**	Type 2 print head Type 2 print head	300 600
		**5954102.001**	DR2 print roller	
		**5954104.001**	RR2 pulley	

SQUIX label printer wear parts

Pos.		Item no.	Designation	dpi
		**5977383.001** **5977444.001** **5977380.001**	Type 4.3 print head Type 4 print head Type 4 print head	300 300 600
		**5954180.001**	DR4 print roller	
		**5954183.001**	RR4 pulley	

Scopes of delivery, designs and technical data correspond to the date of this edition and are subject to change. Information provided in the catalogue do not represent any warranty or guarantee.

AXON 1 / SQUIX label software

Pos.		Item no.	Designation
7.6		Bundle **5588001** **5588100** **5588101** **5588150** **5588151** **5588152** **5588002** **5588105** **5588106** **5588155** **5588156** **5588157** in preparation	cablabel S3 Lite (download on cab.de/en) cablabel S3 Pro, 1 WS cablabel S3 Pro, 5 WS cablabel S3 Pro, 10 WS cablabel S3 Pro, 1 additional licence cablabel S3 Pro, 4 additional licences cablabel S3 Pro, 9 additional licences cablabel S3 Print, 1 WS cablabel S3 Print, 5 WS cablabel S3 Print, 10 WS cablabel S3 Print, 1 additional licence cablabel S3 Print, 4 additional licences cablabel S3 Print, 9 additional licences cablabel S3 Print Server
7.10		**9008486**	Programming manual EN, printed copy

AXON 1 / AXON 2 / SQUIX user languages

Language	Instructions / assembly instructions			Control panel	Windows driver	Service manual	cablabel S3
	AXON 1	AXON 2	SQUIX				SQUIX
European Union							
Bulgarian			X	X	X		X
Danish			X	X	X		
German	X	X	X	X	X	X	X
Estonian			X	X	X		
Finnish			X	X	X		
French	X	X	X	X	X		X
Greek			X	X	X		
English	X	X	X	X	X	X	X
Italian			X	X	X		X
Croatian			X	X	X		
Latvian			X	X	X		
Lithuanian			X	X	X		
Dutch			X	X	X		
Polish			X	X	X		X
Portuguese			X	X	X		
Romanian			X	X	X		
Swedish			X	X	X		
Slovak			X	X	X		
Slowenian			X	X	X		
Spanish			X	X	X		X
Czech			X	X	X		X
Hungarian			X	X	X		
Europe (Non-EU)							
Macedonian				X	X		
Norwegian			X	X	X		
Russian			X	X	X		X
Serbian				X	X		
Turkish			X	X	X		
Asia							
Chinese (simplified)			X	X	X		X
Chinese (traditional)			X	X	X		X
Japanese			X	○	X		
Korean			X	○	X		X
Thai			X	x	X		
Middle East							
Persian				X			
Arabian				X			

○ in preparation

Checklist for AXON tube labeling systems

Download checklist on
www.cab.de/en/axon-conf

Customer / Customer no. _____
Contact _____
Phone _____
Street _____
Zip code / City _____
Email _____

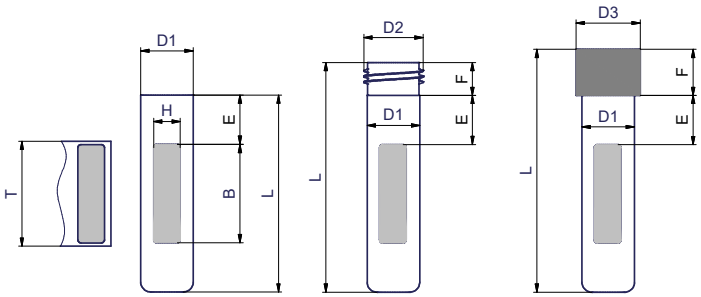
Date of issue _____
Target date _____
Project owner _____
Project control _____
Configurator no. _____
(filled in by cab)

1. Label
Width B _____ mm
Height H _____ mm
Type of material _____
Width T of liner _____ mm

2. Print method
2.1 ☐ Direct thermal
2.2 ☐ Thermal transfer

3. Ribbon
Width _____ mm
Type of material _____
Winding ☐ inside ☐ outside

4. Tubes / Vials
1 Diameter D1 _____ mm
2 Diameter D2 _____ mm
3 Diameter D3 _____ mm
4 Length L _____ mm
5 Distance E _____ mm
6 Height F _____ mm
7 Insertion / Removal ☐ by hand ☐ automated



☐ 5561500 **System aligned and checked**
Required are approx. 100 tubes / vials
1 label roll
1 ribbon roll

AXON 1

5. Tube labeling systems

5.1	☐ 5984920.xxx	AXON 1.1/300 tube labeling system
5.2	☐ 5984930.xxx	AXON 1.1/600 tube labeling system
5.3	☐ 5979600.xxx	AXON 1.2/300 tube labeling system
5.4	☐ 5979740.xxx	AXON 1.2/600 tube labeling system

6. Options

6.1	☐ 5988215.xxx	Cover
6.2	☐ 5988255.250	CC200-AXON code verifier (provided upon request)
6.3	☐ 5979765.250	Warning on a label roll ending (in preparation)
6.4	☐ 5551407.250	DC/DC converter 24 - 60 VDC (in preparation)
6.5	☐ 59xxxxx.250	K Type peel-off plate (customer-specific)
6.6	☐ 5987288.250	Kit for processing tube diameters 16 mm to 38 mm
	Label position	AXON 1.1: 1.0 mm to 38 mm from floor level
		AXON 1.2: 1.0 mm to 11 mm from floor level
6.7	☐ 5977767.xxx	Digital 24 VDC I/O interface

Filled in by cab:
Practicable ☐ **yes** ☐ **no**
Name _____
Phone _____
Email _____
Date _____ **Signature** _____

Customer approval required after check of practicability:
☐ **yes** ☐ **no**
Name _____
Phone _____
Email _____
Date _____ **Signature** _____

AXON 2

5. Tube / Vial opens to the ☐ right ☐ left

6. Tube / Vial removal ☐ as inserted ☐ off a tray

7. Label printers configured for tube applicator use

7.1	☐ 5977023.xxx	SQUIX 4.3/300MP label printer
7.2	☐ 5977007.xxx	SQUIX 4/300MP label printer
7.3	☐ 5977008.xxx	SQUIX 4/600MP label printer

8. Options provided for label printers

8.1	☐ 5953700.xxx	DR4-M30 print roller (max. label width 25.4 mm)
8.2	☐ 5953701.xxx	DR4-M60 print roller (max. label width 56 mm)
8.3	☐ 5953702.xxx	DR4-M80 print roller (max. label width 76 mm)
8.4	☐ 5987212.xxx	Type 56.2 peel-off plate (Ø 18 mm) including two pressure rollers Ø 19 mm
8.5	☐ 5979925.xxx	Type 110 peel-off plate (Ø 14 mm)
8.6	☐ 59xxxxx.250	K Type peel-off plate (customer-specific)
8.7	☐ 5551407.250	DC/DC converter 24 - 60 VDC (in preparation)
8.8	☐ 5977767.xxx	Digital 24 VDC I/O interface

9. Tube applicator

9.1	☐ 5987150.xxx	AXON 2 tube applicator providing a Type 56.1 peel-off plate (Ø 14 mm) a TRV 14 transport roller (Ø 14 mm) a tray

10. Options provided for tube applicator use

10.1	☐ 5987151.xxx	TRV 18 transport roller (Ø 18 mm)
10.2	☐ 5953700.xxx	DR4-M30 print roller (for transport roller use)
10.3	☐ 5953701.xxx	DR4-M60 print roller (for transport roller use)
10.4	☐ 5953702.xxx	DR4-M80 print roller (for transport roller use)
10.5	☐ 5954180.xxx	DR4 print roller (for transport roller use)
10.6	☐ 59xxxxx.250	TRK transport roller
	☐ 5535960	TRK one-off costs

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Overview of cab products

Label printers
MACH1, MACH2

Label printers
EOS 2

Label printers
EOS 5

Label printers
MACH 4S

Label printers
SQUIX 2

Label printers
SQUIX 4

Label printers
SQUIX 6.3

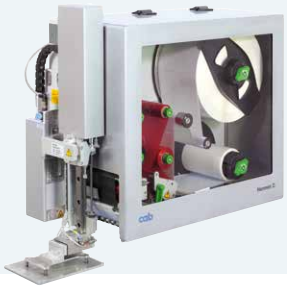
Label printers
SQUIX 8.3

Label printers
XD Q double-sided

Label printers
XC two-colored

Print and apply systems
HERMES Q

Print and apply systems
Hermes C two-colored



Tube labeling systems
AXON 1

Print modules
PX Q

Labels and ribbons

Label software
cablabel S3

Label dispensers
HS, VS

Labeling heads
IXOR

Marking lasers
XENO 4

Laser marking systems

See product information on **www.cab.de/en**

Germany
cab Produkttechnik GmbH & Co KG
Karlsruhe
Phone +49 721 6626 0
www.cab.de

France
cab Technologies S.à.r.l.
Niedermodern
Phone +33 388 722501
www.cab.de/fr

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

Mexico
cab Technology, Inc.
Juárez
Phone +52 656 682 4301
www.cab.de/es

Taiwan
cab Technology Co., Ltd.
Taipei
Phone +886 (02) 8227 3966
www.cab.de/tw

China
cab (Shanghai) Trading Co., Ltd.
Shanghai
Phone +86 (021) 6236 3161
www.cab.de/cn

Singapore
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