

Status: 10/2021



Products need labeling  
Tube labeling systems



**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



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

# 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 24.5 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.

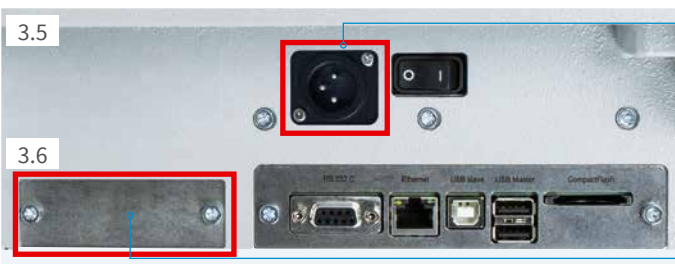
3.4



## K Type peel-off plate, customer-specific

If closures of tubes or vials interfere with a peel-off plate, adaptation is required.

3.5



## 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.

3.6

## 2 Digital 24 VDC I/O interface

SUB-D socket connector, 25 pins

or

## 3 2 port Ethernet switch 10/100 Mbit/s

Another terminal device can be plugged to a shared network. Signals loop through.





# AXON 2 tube applicator



## 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.

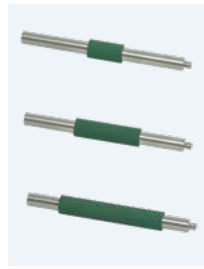
## 6 Tray

Tubes or vials ejected automatically after printing are collected.



See further information  
on SQUIX 4MP label printers  
[www.cab.de/en/squix](http://www.cab.de/en/squix)

## 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 contaminated 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

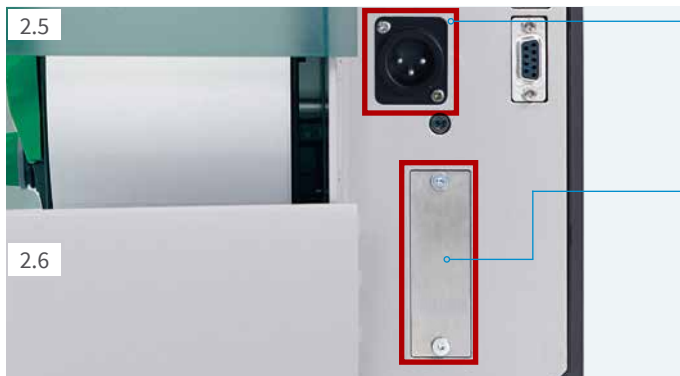


### Peel-off plates

Feeding below a pulley promotes labels be dispensed reliably.

Type 56.1 - labels no more than 56 mm wide (Ø14 mm)\*  
 Type 56.2 - labels no more than 56 mm wide (Ø18 mm)  
 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

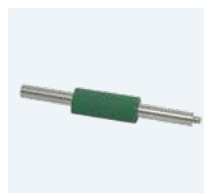
or

### 3 2 port Ethernet switch 10/100 Mbit/s

Another terminal device can be plugged to a shared network. Signals loop through.



## Options provided for the AXON 2 tube applicator



### TRV 18 transport roller (Ø 18 mm) up to 56 mm label width

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 located beside the roller. Operations require labels no more than 56 mm wide and a Type 56 peel-off plate.



### 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

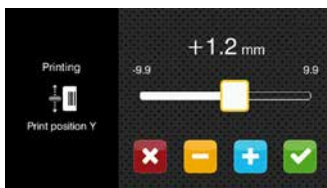
-  Print and apply labels step by step
-  Jump to menu
-  Reprint the last label
-  Interrupt and continue a print job
-  Stop and delete all print jobs
-  Label feed



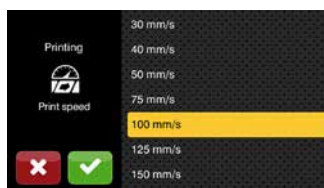
Setup options



Print parameters



Print positions Y



Print speeds

## Landscape or portrait display depending on the orientation of assembly

AXON 1 tube labeling system



1  
4

## Rotation in steps of 90° by software command

SQUIX label printer representing AXON 2



2  
3  
5



## Video tutorials



See AXON 1 videos on  
[www.cab.de/en/axon1-videos](http://www.cab.de/en/axon1-videos)



See AXON 2 videos on  
[www.cab.de/en/axon2-videos](http://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**

- Start printing / applying a label
- Print initial label
- Reprint
- Delete print job
- Label removed
- Stop printing / applying a label
- Label feed
- Pause
- Reset

**PNP, NPN outputs**

- Device ready
- Print data available
- Initial position / upper end limit
- Paper feed ON
- Label in peel-off position
- Labeling position / lower end limit
- Warning on a ribbon ending
- Warning on a label roll ending\*
- Ribbon / Label roll ending
- Collective error

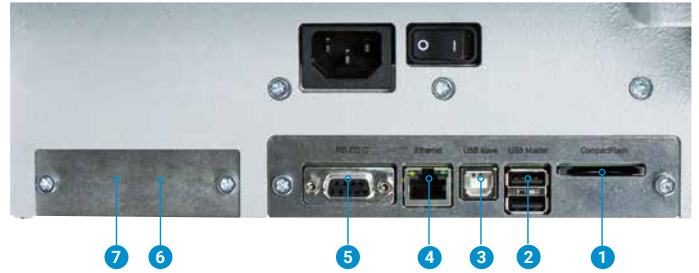
\*AXON 1 only

or

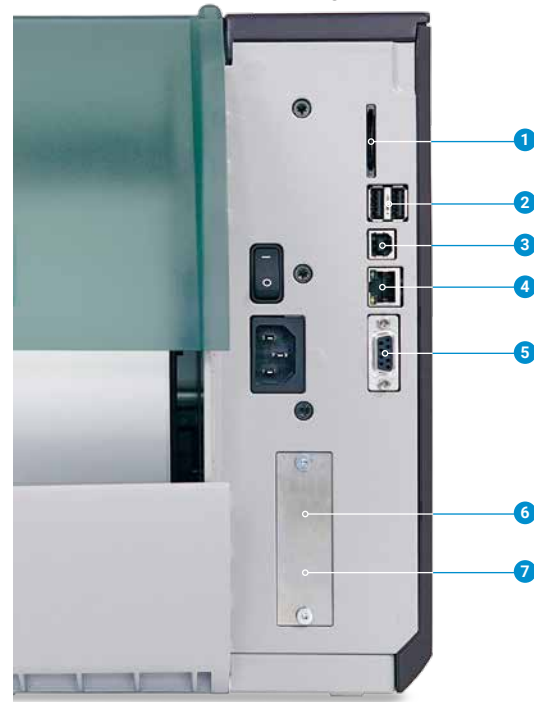
- 7 **2 port Ethernet switch 10/100 Mbit/s**



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

2.13		<b>External control panel</b> Same functionality as on a printer If the control panel on a printer cannot be accessed, an external one can be attached. Landscape or portrait display Operators are free to control either on an external panel or the one on a printer. Power supply requires special connecting cables. USB 2.0 Hi-speed to plug a printer <b>Connecting USB cable, 1.8 m</b> <b>Connecting USB cable, 3 m</b> <b>Connecting USB cable, 5 m</b> <b>Connecting USB cable, 11 m</b> <b>Connecting USB cable, 16 m</b>
2.14		<b>TR2 hand switch</b> A digital I/O interface is required
4.1		<b>Connecting RS232-C cable</b> 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	
<b>Print head</b>										
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	
<b>Material</b>										
Tubes / Vials Orientation at the time of a label be applied			vertical				horizontal			
Diameter	mm		7 - 26				10 - 22	If options are provided: 7 - 12		
	mm upon request max.		38				-			
Length, closure cap included	mm		20 - 50	32 - 130		25 - 120				
Conicity (change in diameter)	% max.		0.8				0.8			
Labels <sup>1)</sup>	Material		Paper, plastics such as PET, PP				Paper, plastics such as PET, PP			
	Width	mm	5 - 25.4	5 - 56		5 - 56	If options are provided: 5 - 110			
	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	If options are provided: 9 - 114			
	Thickness <sup>2)</sup>	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				
<b>Printer dimensions and weights</b>										
Width x Height x Depth	mm		270 x 195 x 560				252 x 288 x 520			
Weight	kg approx.		12				12			
<b>Label sensors / Position indicators</b>										
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				
<b>Interfaces</b>										
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		□							
2 port	Ethernet switch 10/100 Mbit/s		□							
<b>Operational data</b>										
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, EAC, BIS, BSMI, KC-Mark, CoC Mexico			
<b>Control panel</b>										
LCD color touchscreen	Screen diagonal	"	4.3							
	Resolution - Width x Height px		272 x 480							

<sup>1)</sup> Limitations may apply when using small labels, thin materials or strong adhesive. Critical applications need testing.

<sup>2)</sup> 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	
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* 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	■
Mac OS X printer drivers	at least Mac OS 10.6		■
Linux printer drivers	at least CUPS 1.2		■
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 Network Manager (in preparation)		■ ■ ■

\*available for AXON 1 end of 2021

Free and Open Source software are part of cab products.  
For information see [www.cab.de/opensource](http://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](http://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.



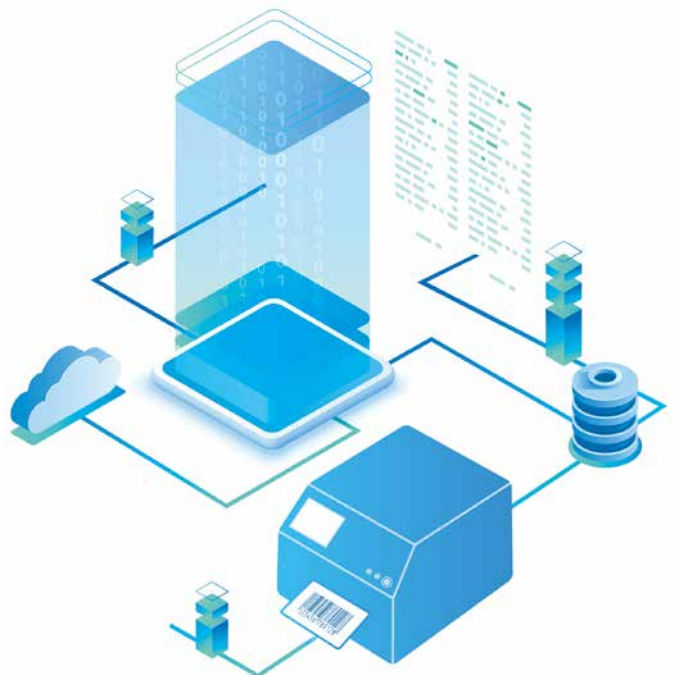
## OPC UA

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 32 / 64 bit drivers to control with software other than cablabel S3. Running them requires at least operating systems Windows Vista, Mac OS 10.6, Linux CUPS 1.2.



### Windows<sup>1)</sup> drivers

WHQL-certified to guarantee maximum reliability with Windows operating systems



### Mac OS X<sup>2)3)</sup> drivers

Based on CUPS  
Running with all programs in Mac OS X



### Linux<sup>3)</sup> drivers

Based on CUPS

Free download on [www.cab.de/en/support](http://www.cab.de/en/support)

## Programming



### JScript

Embedded programming language developed by cab  
Free manual download on [www.cab.de/en/programming](http://www.cab.de/en/programming)



### abc Basic Compiler

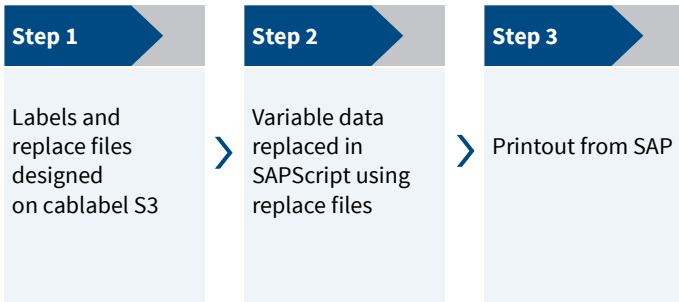
Integral part of the firmware  
It adds to JScript in terms of programming a printer before data are edited for processing. External printer languages can be replaced without intervening in print jobs in process, data be transferred also from scales, barcode scanners or a PLC, and further.

## Integration



### Printer Vendor program

cab is a member  
A replace method enables cab printers be controlled from SAP<sup>4)</sup>R/3 using SAPScript. Only variable data are sent by a host system to the printer. Data such as pictures and fonts, which had been transferred to a local memory (IFFS, memory card, etc.) before, are collected.



<sup>1)</sup> Windows is a registered trademark of Microsoft Corporation  
<sup>2)</sup> MAC OS X is a registered trademark of Apple Inc.  
<sup>3)</sup> SQUIX, MACH 4S, EOS, HERMES Q, PX Q, AXON 1/2 are supported  
<sup>4)</sup> SAP and all its corresponding logos are trademarks or registered trademarks of SAP SEE

# Printer administration



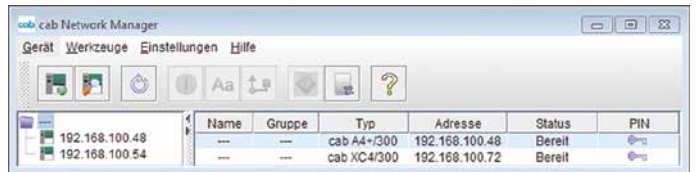
## Configuration on the Intranet / Internet

By integrating a HTTP and FTP server, printers can be controlled, firmware be updated and memory cards be managed using a standard web browser or a FTP client. Administrators and operators are notified of states, warnings and errors via email or datagrams, on the basis of a SNMP / SMTP client. Time and date synchronize on the basis of a time server.



## Network Manager in preparation

Multiple printers in a network can be controlled simultaneously, firmware be updated, memory cards be managed, data be synchronized and PINs be administrated from one place.



## Database Connector

Printers plugged to a network can access data directly from a central ODBC / OLEDB database to print on a label. During printing, data can be resent to the database.





# Delivery program

## AXON 1 tube labeling systems

Pos.	Part no.	Indication
1.1	<b>5984920.xxx</b>	AXON 1.1/300 tube labeling system
1.2	<b>5984930.xxx</b>	AXON 1.1/600 tube labeling system
1.3	<b>5979600.xxx</b>	AXON 1.2/300 tube labeling system
1.4	<b>5979740.xxx</b>	AXON 1.2/600 tube labeling system
	<b>5561500</b>	System aligned and checked using customer materials

**xxxxxxx.250 system providing options**

## Options provided for AXON 1 tube labeling systems

Pos.	Part no.	Indication
3.1	<b>5988215.250</b>	Cover
3.2	<b>5988255.250</b>	CC200-AXON code verifier available from September 2021
3.3	<b>5979765.250</b>	Warning on a label roll ending in preparation
3.4	<b>59xxxxx.250</b>	K Type peel-off plate
3.5	<b>5551407.250</b>	DC/DC converter 24 - 60 VDC in preparation
3.6	<b>6010372.xxx</b>	Digital 24 VDC I/O interface
3.7	<b>6010520.xxx</b>	2 port Ethernet switch 10/100 Mbit/s

**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

### Available 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 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

Mac OS X printer drivers DE/EN/FR  
Linux printer drivers DE/EN/FR  
cablabel S3 Lite software  
cablabel S3 Viewer  
Database Connector

## AXON 2 tube labeling systems

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

**xxxxxxx.250 system providing options**

## Options provided for SQUIX label printers

Pos.	Part no.	Indication
2.1	<b>5953700.xxx</b> <b>5953701.xxx</b> <b>5953702.xxx</b>	DR4-M30 print roller DR4-M60 print roller DR4-M80 print roller
2.2	<b>5987212.xxx</b>	Type 56.2 peel-off plate (Ø18 mm)
2.3	<b>5979925.xxx</b>	Type 110 peel-off plate
2.4	<b>59xxxxx.250</b>	K Type peel-off plate
2.5	<b>5551407.250</b>	DC/DC converter 24 - 60 VDC in preparation
2.6	<b>6010372.xxx</b>	Digital 24 VDC I/O interface
2.7	<b>6010520.xxx</b>	2 port Ethernet switch 10/100 Mbit/s

## Options provided for the AXON 2 tube applicator









Pos.	Part no.	Indication
5.1	<b>5987151.xxx</b>	TRV 18 transport roller
5.2	<b>5953700.xxx</b> <b>5953701.xxx</b> <b>5953702.xxx</b>	DR4-M30 print roller DR4-M60 print roller DR4-M80 print roller
5.3	<b>5954180.xxx</b> <b>59xxxxx.250</b> <b>5535960</b>	DR4 print roller TRK transport roller 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.		Part no.	Indication
2.7		<b>5977370</b>	SD memory card
2.8		<b>5977730</b>	USB memory stick
2.9		<b>5978912</b>	USB WLAN stick 2.4 GHz 802.11b/g/n
2.10		<b>5977731</b>	USB WLAN stick with a rod antenna 2.4 GHz 802.11b/g/n + 5 GHz a/n/ac
2.11		<b>5977732</b>	USB Bluetooth adapter
2.12		<b>5917651</b>	I/O interface plug SUB-D, 25 pins
2.13		<b>6010186</b>	External control panel
		<b>5907718.850</b>	Connecting USB cable, 1.8 m
		<b>5907730.850</b>	Connecting USB cable, 3 m
		<b>5907750.850</b>	Connecting USB cable, 5 m
		<b>5907760.850</b>	Connecting USB cable, 11 m
<b>5907765.850</b>	Connecting USB cable, 16 m		
2.14		<b>5955710</b>	TR2 hand switch
4.1		<b>5550818</b>	Connecting RS232-C cable 9/9 pins, 3 m

## AXON 1 wear parts


Pos.		Part no.	Indication	dpi
		<b>5977384.001</b>	Type 2 print head	300
		<b>5977385.001</b>	Type 2 print head	600
		<b>5954102.001</b>	DR2 print roller	
		<b>5954104.001</b>	RR2 pulley	

## SQUIX label printer wear parts

Pos.		Part no.	Indication	dpi
		<b>5977383.001</b>	Type 4.3 print head	300
		<b>5977444.001</b>	Type 4 print head	300
		<b>5977380.001</b>	Type 4 print head	600
		<b>5954180.001</b>	DR4 print roller	
		<b>5954183.001</b>	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.		Part no.	Indication
7.6		Bundle	cablabel S3 Lite (download on cab.de/en)
		<b>5588001</b>	cablabel S3 Pro, 1 WS
		<b>5588100</b>	cablabel S3 Pro, 5 WS
		<b>5588101</b>	cablabel S3 Pro, 10 WS
		<b>5588150</b>	cablabel S3 Pro, 1 additional licence
		<b>5588151</b>	cablabel S3 Pro, 4 additional licences
		<b>5588152</b>	cablabel S3 Pro, 9 additional licences
		<b>5588002</b>	cablabel S3 Print, 1 WS
		<b>5588105</b>	cablabel S3 Print, 5 WS
		<b>5588106</b>	cablabel S3 Print, 10 WS
7.10		<b>5588155</b>	cablabel S3 Print, 1 additional licence
		<b>5588156</b>	cablabel S3 Print, 4 additional licences
		<b>5588157</b>	cablabel S3 Print, 9 additional licences
		in preparation	cablabel S3 Print Server
		<b>9008486</b>	Programming manual EN, printed copy

## AXON 1 / AXON 2 / SQUIX user languages

Language	Instructions*			Control panel	Windows driver	cablabel S3
	AXON 1	AXON 2	SQUIX			
<b>European Union</b>						
Bulgarian			X	X		X
Danish			X	X	X	
German	X	X	X	X	X	X
Englisch	X	X	X	X	X	X
Estonian			X	X		
Finnish			X	X	X	
French	X		X	X	X	X
Greek			X	X		
Italian			X	X	X	X
Croatian			X	X	X	
Latvian			X	X		
Lithuanian			X	X	X	
Dutch			X	X	X	
Polish			X	X	X	X
Portuguese			X	X	X	
Romanian			X	X		
Swedish			X	X	X	
Slovak			X	X	X	
Slovenian			X	X	X	
Spanish			X	X	X	X
Czech			X	X	X	X
Hungarian			X	X	X	
<b>Europe (Non-EU)</b>						
Macedonian				X		
Norwegian			X	X	X	
Russian			X	X	X	X
Serbian				X		
Turkish			X	X	X	
<b>Asia</b>						
Chinese, simplified			X	X	X	X
Chinese, traditional			X	X	X	X
Japanese			X		X	
Korean			X		X	X
Thai			X	x	X	
<b>Middle East</b>						
Arabian				X		
Hebrew					X	
Persian				X		

\*more languages in preparation

# Checklist for AXON tube labeling systems

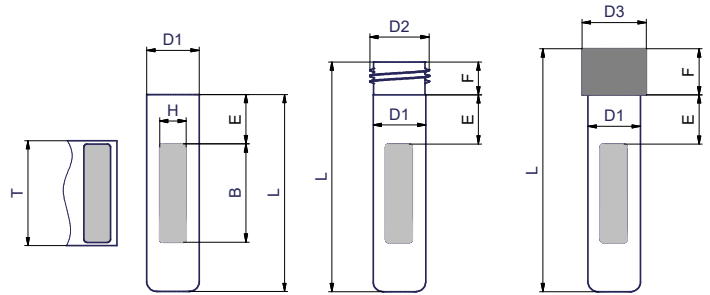


Download checklist on [www.cab.de/en/axon-conf](http://www.cab.de/en/axon-conf)

**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  5988215.250 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  59xxxxx.250 Kit for processing tube diameters 26 mm to 38 mm

Filled in by cab:  yes  no

**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)
  - 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)
- 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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# Range of cab products

**MACH1 / MACH 2**  
label printers



**EOS 2**  
label printer



**EOS 5**  
label printer



**MACH 4S**  
label printer



**SQUIX 2**  
label printer



**SQUIX 4**  
label printer



**SQUIX 6.3**  
label printer



**A8+**  
label printer



**XD4T**  
duplex label printer



**XC**  
two-color label printer



**HERMES Q**  
print & apply system



**Hermes C**  
two-color print & apply system



**AXON**  
tube labeling system



**PX Q**  
print module



Labels and ribbons



**cablabel S3**  
label software



**HS / VS**  
label dispensers



**IXOR**  
labeling head



**XENO 4**  
marking laser



Laser marking systems



Germany  
**cab Produkttechnik GmbH & Co KG**  
Karlsruhe  
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**cab Technologies S.à.r.l.**  
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