a:touch Lite

Universal control panel for Allen thermal transfer printers of the XL5000 series

OPERATING INSTRUCTIONS
Important notes

Operating instructions
Description
a:touch Lite

Version
V1.01

The operating manual is a translation of the original operating instructions.

Applicability
The present operating instructions apply to devices with the following article number.

Device name
Article Number  Description
103790  a:touch Lite

Using this manual
▪ First read the Chapter on “Safety information” before you begin working with the device.
▪ The operating manual enables safe working on and with the device. It is essential that you comply with all safety instructions contained therein.
▪ Read the complete operating manual before installing and commissioning the device.
▪ The operating manual is a part of the device. It must be stored so that every person that works on and with the device has access to it at all times. The manual must be complete and in an easily readable condition.
▪ When the device is passed on, you must enclose the operating manual.
▪ If the operating manual is lost, please ask for a replacement. Information on the current version of the operating manual may be found on our website www.AllenCoding.com.
▪ The information provided in these Operating Instructions relate to the devices described under “Applicability”.

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Manufacturer
Allen Coding GmbH
Friedrich-Bergius-Ring 30
D-97076 Würzburg
Direct  +49 931 250 76 - 0
Fax  +49 931 250 76 – 50
Email: info@AllenCoding.com
Website: www.AllenCoding.com
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   a:touch Lite

V1.01


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<th>21</th>
</tr>
</thead>
</table>

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<th>22</th>
</tr>
</thead>
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<td>23</td>
</tr>
<tr>
<td>C.</td>
<td>Exploded view</td>
<td>24</td>
</tr>
</tbody>
</table>
PRODUCT IDENTIFICATION

1 Product identification

1.1 Characteristic data

<table>
<thead>
<tr>
<th>Description</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>a:touch Lite</td>
<td></td>
</tr>
<tr>
<td>Part number</td>
<td>103790</td>
</tr>
<tr>
<td>Unique Identification (5-digit)</td>
<td>e.g. 18001</td>
</tr>
</tbody>
</table>

1.2 Designated use

- The control panel a:touch Lite is for monitoring and controlling thermal transfer printing systems of the XL5000 series of Allen Coding GmbH only.
- The USB interface may only be used to transfer data with a directly connected USB pen drive.

Reasonably foreseeable misuse:

- Operating the control panel a:touch Lite with other systems than thermal transfer printing systems of the XL5000 series of Allen Coding GmbH.
- Other uses of the USB interface as for data transfer with a directly connected USB pen drive.
- Use of accessories and spare parts that are not recommended by the manufacturer.
- Operation / use of the control panel beyond the designated use defined by the manufacturer can endanger persons and / or cause property damage.

1.3 Qualification of personnel

Operation and set-up:
Operation and set-up of the device may only be performed by sufficiently qualified and trained personnel that have been authorized by operator to perform these tasks.

Installation, cleaning and maintenance:
Installation, cleaning and maintenance of the device may only be performed by fully qualified and trained technical personnel.

Maintenance:
Maintenance of the device may only be performed by the manufacturer’s technical personnel or by fully trained and qualified technical personnel.
1.4 Identification of the device

**Type plate**
The type plate attached to the device contains the following data:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Equipment type</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Part number</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Serial number</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Year of manufacture</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>WEEE symbol</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Production Build</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>CE mark</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Electrical data: Voltage, maximum input current, maximum rated input</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Remark relating to compliance with FCC rules part 15 and ICES-003 (Class A)</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Manufacturer</td>
<td></td>
</tr>
</tbody>
</table>

a:touch Lite - 103790  S/N: 18003
YOM: 2018  PB 1.0
Input: 5 V DC
max. 2 A
max. 10 VA
Made in Germany

This device complies with Part 15 of the FCC Rules.
This Class A digital apparatus complies with Canadian ICES-003

Allen Coding GmbH
Friedrich-Bergius-Ring 30
97076 Würzburg
Germany
1.5 Compliance information

1.5.1 CE-compliance

NOTE
CE-conformity

The product’s CE conformance is certified by attachment of the CE symbol to the name plate. A sample of the declaration is found in the Appendix to these Operating Instructions; see “CE-compliance statement”.

The device meets the requirements of the following European EC-Guidelines:

- EMC guideline 2014/30/EU
- RoHS guideline 2011/65/EU

1.5.2 EMC compliance statements

European Union (EU) Electromagnetic Compatibility Directive Compliance Statement

This product is in conformity with the protection requirements of EU Council Directive 2014/30/EU on the approximation of the laws of the Member States relating to electromagnetic compatibility.

Warning: In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Federal Communications Commission (FCC) Emissions Compliance Statement

This equipment has been tested and complies with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device might not cause harmful interference, and (2) this device must accept any interference received, including interference that might cause undesired operation.

Warning: Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at their own expense.

Industry Canada Class A Emissions Compliance Statement

This Class A digital apparatus complies with Canadian ICES-003.

1.5.3 RoHS / WEEE – compliance

RoHS

The product complies with the relevant provisions of the RoHS Directive for the European Union.

WEEE Directive Statement for the European Union

WEEE-Reg.-Nr. DE 84410135

In common with all Electronic and Electrical products the product should not be disposed of in household waste. Alternative arrangements may apply in other jurisdictions.
2 Safety information

This Chapter contains information on the configuration and relevance of the safety information presented in these operating instructions, and information on possible hazards which may occur even for compliant usage of the device.

2.1 Configuration of the safety instructions

⚠️ SIGNAL WORD

Type and source of hazard
Explanation of the hazard and information on possible consequences of non-compliance
- Activities/prohibited actions to help prevent accidents.

The pictogram denotes the type of hazard
The safety sign ⚠️ before the signal word indicates a possibility of personal injury
The signal word denotes the severity of the hazard

<table>
<thead>
<tr>
<th>SIGNAL WORD</th>
<th>Consequences when hazard occurs</th>
<th>Probability of occurrence</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD</td>
<td>Severe physical injury or death (irreversible)</td>
<td>imminent</td>
</tr>
<tr>
<td>WARNING</td>
<td>Severe physical injury or death (irreversible)</td>
<td>possible</td>
</tr>
<tr>
<td>CAUTION</td>
<td>Slight/minor physical injury (reversible)</td>
<td>possible</td>
</tr>
<tr>
<td>ATTENTION</td>
<td>Property damage to machinery and/or to nearby assets</td>
<td>possible</td>
</tr>
</tbody>
</table>

The reference text describes:
- type and source of hazard,
- the possible consequences of disregarding the safety instruction,
- measures or restraints to prevent the hazard.
SAFETY INFORMATION

2.2 Used pictograms

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>🟢⚠️</td>
<td>Warning of a general hazard</td>
</tr>
<tr>
<td>🟥🛑</td>
<td>Warning of possible property damages</td>
</tr>
<tr>
<td>📚</td>
<td>Before performance, observe the corresponding information in the operating manual</td>
</tr>
<tr>
<td>📝</td>
<td>General note</td>
</tr>
</tbody>
</table>

2.3 Hazards during compliant use

⚠️ CAUTION

Potential hazard caused by incorrect accessories and spare parts!
The use of accessories and spare parts that are not recommended by the manufacturer may compromise safety, functionality and efficiency of the device. Any liability and warranty for any damages caused by not recommended accessories and spare parts or non-intended use is excluded by the manufacturer.
- Thus, use manufacturer recommended accessories and spare parts exclusively.
3  Product specifications

In this Chapter, you will find information on the deliverable items and on the furnishings of the device.

3.1  Safety requirements

NOTE
Please always follow the safety instructions.
See chapter “Safety information”.

3.2  Deliverable items

NOTE
Check the deliverable items for completeness and condition.
After receipt of the shipment, please check immediately to see whether all items listed on the delivery ticket are included and are undamaged. The manufacturer does not accept liability for deficiencies that have been claimed subsequently. Complain against:
- Transport damages directly to the shipping service.
- Deficiencies and/or incompleteness immediately to the manufacturer or your distributor.

The following components belong to the standard deliverable items for the device:

<table>
<thead>
<tr>
<th>Position</th>
<th>Qty.</th>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>103799</td>
<td>Set a:touch Lite</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Including:</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>-</td>
<td>a:touch Lite</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>100750</td>
<td>Connection cable for printers of the XL5000 series (&lt;3m, shielded)</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>-</td>
<td>Bracket with fixing material</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>-</td>
<td>Accessories USB pen drive</td>
</tr>
</tbody>
</table>
3.3 a:touch Lite interfaces

1. Power supply and communication interface (D-sub 9-pin jack)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Description/Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>VCC +5 VDC</td>
</tr>
<tr>
<td>2</td>
<td>TxD – transmit data</td>
</tr>
<tr>
<td>3</td>
<td>RxD – received data</td>
</tr>
<tr>
<td>4</td>
<td>GND – ground external</td>
</tr>
<tr>
<td>5</td>
<td>GND – ground external</td>
</tr>
<tr>
<td>6</td>
<td>VCC +5 VDC</td>
</tr>
<tr>
<td>7</td>
<td>VCC +5 VDC</td>
</tr>
<tr>
<td>8</td>
<td>VCC +5 VDC</td>
</tr>
<tr>
<td>9</td>
<td>GND – ground external</td>
</tr>
</tbody>
</table>

2. USB interface (port type A)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Description/Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>+ 5V</td>
</tr>
<tr>
<td>2</td>
<td>data -</td>
</tr>
<tr>
<td>3</td>
<td>data +</td>
</tr>
<tr>
<td>4</td>
<td>GND</td>
</tr>
</tbody>
</table>
4 Unpacking and installation

In the following Chapter, you will find information on unpacking and installation of the device.

4.1 Unpacking

**CAUTION**

**Hazards due to defects or transport damage!**

Transport damage to the device may result in unforeseeable hazards to personnel and/or property.

- On unpacking the device, check for any visible damage.
- Never connect a damaged device to the voltage supply or a printing system.
- Broken glass or plastic can cause injuries to hands. Liquids may emerge from a broken display. Avoid contact with this liquid. Clean carefully any body parts or clothing that have been exposed to these liquids.
- In case of transport damage, consult the manufacturer or your distributor.

**NOTE**

**Recycling of transport packing.**

The transport packaging may be stored for later recycling, e.g. transport or storage.

**Step 1:** Open the transport packing.

**Step 2:** Check whether all items listed on the delivery ticket are included and undamaged.

**Step 3:** Remove all components of the device carefully from the transport packing.
UNPACKING AND INSTALLATION

4.2 Installation

⚠️ CAUTION
Potential hazard due to incorrect or non-compliant installation!
Incorrect or improper assembly of the device may impair safety, functionality and efficiency of the device.
- The installation of the device may be performed exclusively by qualified technical expert personnel.
- Follow the relevant instructions in the operating manual.

⚠️ ATTENTION
Damage to device due to condensate and overheating!
Exposing the device to excessive heat or cold while transport or storage, may cause damage to the device.
- Prior to startup, store the device for 24 hours within conditions corresponding to the later ambient conditions in respect to temperature and humidity. This ensures that the device can acclimatize.

Step 1: Ensure that the printer is powered off.

Step 2: Use the connection cable to connect the a:touch Lite via the power supply and communication interface to the printer. Fix the cable at both ends using the fastening screws to prevent an undesired loosening.

Step 3: The system will boot up automatically as soon as the printer is started.
5 Operating

ATTENTION
Damage to the device due to deforming or shaking!
Bending and deforming may cause damage to the device or to components.
Do not expose the device to excessive shaking.
- Install the device using the designated mounting holes in a vibration-free place.

ATTENTION
Keep device dry!
Moisture and liquids of all sorts may cause damage to components or electrical circuits of the device.
- Do not switch on the device, if wet.
- If the device is already switched on, turn it off immediately.
- Dry the device and consult the manufacturer or distributor for repair or maintenance.

Touch screen
The a:touch Lite is equipped with a touch screen. Operate the device by touching the screen with e.g. a. Do not use any sharp objects to operate the device.

Configuration
Due to the system configuration, the program for controlling Allen thermal transfer printers will start automatically.
The operation of the program is described in the respective operation manual.

USB interface
The USB interface is for transmitting data (e.g. label, firmware, backups) using a USB pen drive. The process of transmitting data via the USB interface is described in the operation manual of the respective application software.

Update the application software
The update process of the application software is described in the operation manual of the application software as well as in the service instruction available on the provided accessories USB pen drive.

Troubleshooting
Error messages are specific for each printing system. Please refer to the help section or the respective operation manual.
CLEANING AND MAINTENANCE

6 Cleaning and maintenance

CAUTION
Hazards during cleaning and maintenance activities!
Switch off the device during cleaning and maintenance work, otherwise personnel safety may be at risk and damage to the device or other nearby property may result.

- Always deactivate the power supply to the device during cleaning and maintenance activities. Pull the mains plug.
- During maintenance and during your absence, secure the device so that no changes may be performed by other persons or situations.
- Maintenance and cleaning work may only be performed by trained personnel.

6.1 Cleaning

ATTENTION
Damage to the device due to improper cleaning!
Use of improper cleaning methods and the use of incorrect cleaning agents may result in damage to electronic and mechanical components of the device.

- Disconnect the device from the power supply before you begin cleaning.
- Follow the cleaning instructions described in the operating manual.
- Use only cleaning agents specified by the manufacturer.

Clean the a:touch Lite with a soft clean cloth, if necessary. Permissible cleaning agents are water and isopropyl alcohol. Avoid moisture or liquid to intrude into the device and swipe drops from the device immediately.

6.2 Maintenance

ATTENTION
Damage due to improper maintenance – do not disassemble, modify or repair the device!
Changes to or modifications of the device may lead to the expiration of the manufacturer’s warranty.

- For repair or maintenance, please consult the manufacturer or distributor.
6.2.1 Internal wiring

If it is necessary to replace components in the scope of maintenance or repairs that carry electric current, please refer to the following schematic diagram for the internal wiring.

![Internal wiring diagram]

1. Power supply single board computer
2. Power supply display
3. HDMI
4. Serial communication

6.2.2 Spare parts

Refer to the Spare Parts List under “Spare parts” in the appendix.
CLEANING AND MAINTENANCE

6.2.3 Service address

Europe

<table>
<thead>
<tr>
<th>Germany</th>
<th>UK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allen Coding GmbH</td>
<td>ITW Ltd.</td>
</tr>
<tr>
<td>Service Department</td>
<td>Service Department</td>
</tr>
<tr>
<td>Friedrich-Bergius-Ring 30</td>
<td>Friedrich-Bergius-Ring 30</td>
</tr>
<tr>
<td>D-97076 Würzburg</td>
<td>D-97076 Würzburg</td>
</tr>
<tr>
<td>Tel.: +49 931 250 76 - 911</td>
<td>Tel.: +44 1438 347 770</td>
</tr>
<tr>
<td>Fax  +49 931 250 76 – 50</td>
<td>Fax  +44 1438 347 771</td>
</tr>
<tr>
<td>Email: <a href="mailto:support@allencoding.com">support@allencoding.com</a></td>
<td>Email: <a href="mailto:info@allencoding.co.uk">info@allencoding.co.uk</a></td>
</tr>
</tbody>
</table>

Website: [www.AllenCoding.com](http://www.AllenCoding.com)

North Amerika

USA

<table>
<thead>
<tr>
<th>Diagraph</th>
<th>Fax (Sales): (636) 300-2004</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Missouri Research Park Drive</td>
<td>Fax (Service): (636) 300-2005</td>
</tr>
<tr>
<td>St. Charles, MO 63304-5685, USA</td>
<td>Email: <a href="mailto:sales@diagraph.com">sales@diagraph.com</a></td>
</tr>
<tr>
<td>Sales: (800) 722-1125</td>
<td></td>
</tr>
<tr>
<td>Service: (800) 526-2531</td>
<td></td>
</tr>
</tbody>
</table>

Website: [www.diagraph.com](http://www.diagraph.com)

NOTE

Important information in case of defects

In case of defects in equipment, please provide the following information:

- Serial number/unique identification number
- Equipment type
- Description of fault
- Software- / Firmware-version
- Any affected components/assemblies
7 Transport, storage and disposal

7.1 Transport
Transport the device only in the packaging in which you received it.

7.2 Storage
Store the device only under the stated, permissible ambient conditions regarding temperature and humidity. Relevant information is found in this operating manual under “Technical specifications”. Protect the device against dust and dirt.

7.3 Disposal
The device consists of various materials which can be recycled and which must be disposed of separately.

In the event of disposal of the device, follow the relevant legal guidelines. Since the disposal guidelines may differ from country to country, please consult with your supplier as necessary.

Notes to disposal:

- Material types should be disposed of separately. The objective should always be an environmentally compatible disposal which ensures maximum recycling of materials.
- Observe the material and disposal instructions that may be present on certain individual parts.
- Make use of the opportunity to return materials to the manufacturer or supplier.
# Technical specifications

## a:touch Lite

### Display

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen size</td>
<td>7.0” (17.78 cm)</td>
</tr>
<tr>
<td>Native resolution (Pixel)</td>
<td>1024 x 600</td>
</tr>
<tr>
<td>Technology</td>
<td>LCD</td>
</tr>
</tbody>
</table>

### Operation

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation</td>
<td>touch</td>
</tr>
<tr>
<td>Touch technology</td>
<td>capacitive</td>
</tr>
</tbody>
</table>

### Interfaces

**D-sub connector**

- 1 x power supply and communication interface (D-sub 9-pin jack)
- Connection cable:
  - Length: < 3 m
  - Characteristics: shielded

**USB**

- 1 x USB2.0 type A
- Use for data transfer with a directly connected USB pen drive only.

### Power Supply

- Supply voltage: +5 VDC
- Power consumption (max) [W]: 10

### Dimensions

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing - front (B x H)</td>
<td>247 x 135</td>
</tr>
<tr>
<td></td>
<td>mm</td>
</tr>
<tr>
<td>- depth [mm]</td>
<td>42</td>
</tr>
<tr>
<td>- weight [kg]</td>
<td>1.4</td>
</tr>
</tbody>
</table>

### Ambient conditions

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature [°C]</td>
<td>5 to 40</td>
</tr>
<tr>
<td>Storage temperature [°C]</td>
<td>-25 to 80</td>
</tr>
<tr>
<td>Humidity [%]</td>
<td>5 to 90 (non condensing)</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP 20</td>
</tr>
</tbody>
</table>
9 Scale drawing

Dimensions (mm)

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>247</td>
<td>135</td>
<td>42</td>
<td>75</td>
<td>M4 (↓7)</td>
</tr>
</tbody>
</table>
Appendix

A. CE-compliance statement

EC-Declaration of Conformity

a:touch Lite

EC-Declaration of Conformity

according to EC EMC directive 2014/30/EU, Annex IV
(Translation of the EC Declaration of Conformity)

Hereby we declare that the product named in the following adheres to the basic requirements of the EC EMC directive 2014/30/EU in regards to its concept, design and version that is marketed by us. Changes that have not been coordinated with us will invalidate this declaration. This declaration of conformity is issued under the sole responsibility of the manufacturer.

Manufacturer:
Allen Coding GmbH
Friedrich-Segius-Ring 30
D-97076 Würzburg
Direct: +49 931 250 76-0
Fax: +49 931 250 76-50
E-Mail: info@AllenCoding.com
Website: www.AllenCoding.com

Product: Control panel for XL5000 Printing Systems a:touch Lite

Object of the declaration:
Type / Model: a:touch Lite - 101790

The conformity with addition guidelines/regulations that apply to the product is declared:
2011/65/EU (RoHS Directive);

The object of the declaration described above is in conformity with directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

The conformity of the named product with the rules of the EC guideline named above is proved by conformity with the following standards:

Applied harmonized standards:
EN 61000-6-2:2005
EN 61000-6-3:2007 + A1:2011

Additional applied standards:
FOC-17 CFR Part 15 Subpart B
IEC 60603 Issue 6

Details of signatory person:

Thomas Franke
(Engineering Manager)

Emely Eßer
(Quality Manager)

Signature

Würzburg, 15.03.2018
(Place, Date)

Signature

Würzburg, 15.03.2018
(Place, Date)
APPENDIX

B. Spare parts

Overview

<table>
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<th>No.</th>
<th>Part number</th>
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<td>Kit PCBs</td>
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Spare part kits

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<th>Qty.</th>
<th>Description</th>
<th>Pos.</th>
<th>Qty.</th>
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<td></td>
<td>Fasteners</td>
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APPENDIX

C. Exploded view