



Operating Manual Test Mark Stamp (PZS)

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1. Information about the product, project and manufacturer

Product Test mark stamp (PZS)
Device for the automated marking of products or product steps.

Manufacturer



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2. About this operating manual

Information on the following topics:

- Purpose Chap. 2.1
- Target groups Chap. 2.2
- Availability Chap. 2.3
- Formatting conventions Chap. 2.4

2.1. Purpose

Information about the safe handling of this device for its life phases:

- Product description Chap.5
- Maintenance Chap.6
- Disposal Chap.7

2.2. Target groups

Target group	Task	Required qualification
Operator	Using the device	Person with instructions to use the device
Maintenance person	<ul style="list-style-type: none"> ▪ Inspection ▪ Maintenance ▪ Cleaning 	Person with suitable training and experience. This puts them in a position to detect risks and avoid hazards that can emanate from electrical equipment.

2.3. Availability

- Provision** The operator shall provide these operating instructions to the persons specified in the Target groups section (Chapter 2.2).
- Storage** The operator keeps these complete operating instructions in the immediate vicinity of the device/system at hand.
- Transfer** When the device is handed over to another person, the operator passes on these operating instructions to this person.

2.4. Formatting conventions

Overview of the used warnings, signs and textual highlighting.

2.4.1. Warnings

Warnings are used in this manual.

Warnings warn against residual risks. Residual risks are risks that, despite the device's inherent construction and technical protection measures, could not be avoided.

The grading of the warnings depends on the severity of the damage which may occur in the event of disregarding the warnings and the violation of recommendations for action.

The grading of the warnings takes place with the following signal words:

- DANGER
- WARNING
- CAUTION
- NOTE

The following types of warnings/alerts are used:

- Section-related warnings
- Embedded warnings

Section-related warnings

Sectional warnings are at the beginning of a chapter, section, or subsection.

Section-related warnings are structured according to the following pattern:

- S
- Severity of injury
 - Signal word DANGER; WARNING, CAUTION, NOTE

A Type and source of danger
For example, electrical hazards or hazards due to substances such as nitrogen

F Consequence
For example, physical damage or health hazard

E Escape
Measure to avoid the dangerous situation

The following warnings are section-related warnings.

 **DANGER**



Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

 **WARNING**



Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

 **CAUTION**



Indicates a hazardous situation which, if not avoided, could result in moderate or minor injury.

NOTE

Indicates situations that can lead to property damage if it is not avoided.

Embedded warnings Embedded alerts refer to a specific part within a section. These warnings apply to smaller pieces of information than the section-related warnings.

Embedded warnings are structured according to the following pattern:



followed by an instruction to avoid a dangerous situation.


2.4.2. Signs

This manual uses the following signs in connection with section warnings:

- Warning sign
- Mandatory sign


Warning sign

Example of a warning sign.

Warning sign	Description
	Warning of a hazardous point

Mandatory sign

Example of a mandatory sign.

Mandatory sign	Description
	Use foot protection

3. Safety regulations

Information about the safe use of the device:

- | | |
|--------------------------------|-----------|
| ▪ Intended use | Chap. 3.1 |
| ▪ Improper use | Chap. 3.2 |
| ▪ Information for the operator | Chap. 3.3 |
| ▪ Residual risks | Chap. 3.4 |
-

3.1. Intended use

The test mark stamp is used to automatically mark products with a flat surface. The labelling is done by a rubber stamp wetted with coloured ink.

See product description, chapter 5

3.2. Improper use

Any use which does not conform to the intended use is a use contrary to the intended purpose, the execution of which is prohibited.

3.3. Information for the operator

The operator of the device has the following obligations:

- Identification, implementation and compliance with the legal health and safety regulations of the country in which the device is operated.
- Identification of hazards and derivation of measures to avoid hazards that may arise from handling the device.
- Determination of test and maintenance intervals for the device.
- Training the persons who use the device.
- Provide this manual to the persons listed in the Target groups section, Chap. 2.

3.4. Residual risks

WARNING



- Risk of injury from moving parts
- The distances from the lever drive change
- Hands/fingers can be pinched or crushed.
- Do not reach into the area of the stamp arm during operation.

CAUTION



Destruction of the device due to incorrect operating voltage.
Select the correct operating voltage.
Before commissioning, check the operating voltage.

CAUTION



Irritations from the stamping ink.
Avoid contact with skin and eyes.
Observe the safety data sheet of the ink manufacturer.

NOTE

Stamp force < 15N

NOTE

Use the supplied 2m connecting cable

NOTE



Refer to the manual.
Operating instructions in electronic form:
www.quintest.de/download

4. Technical specifications

Test mark stamp technical specifications.

Dimensions: max. (HxWxD)	max. 130x130x130 depending on the model
Weight	< 0.7kg
Power supply	12V...24V DC max. 0.3A optional 5V DC
Drive path	depending on the model
Force	<15N
Temperature range	0°C ... 40°C

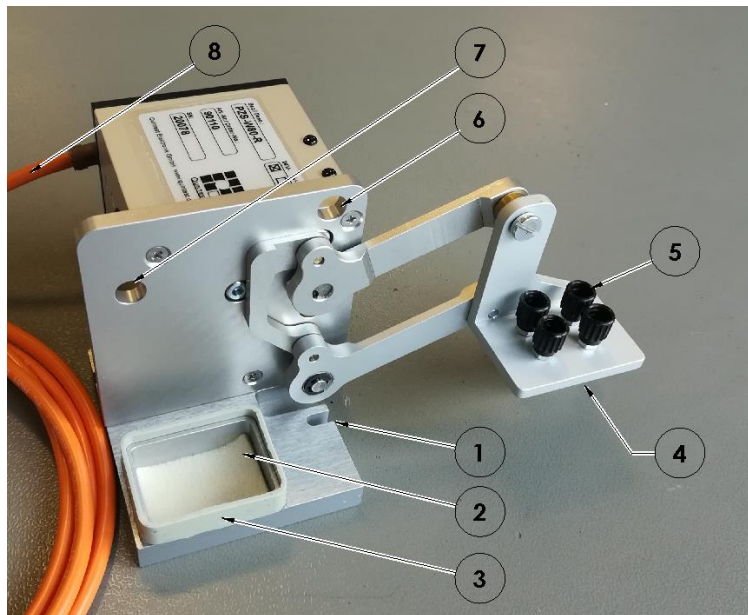
5. Product description

Information about the structure and function:

- Scope of delivery Chap. 5.1
- Function description Chap. 5.2
- Commissioning Chap. 5.3

5.1. Scope of delivery

The scope of delivery includes the following components:



No.	Description
1	Mounting brackets
2	Inkpad
3	Inkpads holder
4	Stamp insert positioner
5	Thumbscrew
6	Accessory: End position sensor working position
7	Accessory: End position sensor rest position
8	Connection cable 2m

5.2. Function description

After the start signal, the device drives the stamp out. The movement is monitored by the control electronics. If the stamp hits the product, the drive is reversed. The stamp drives back to the start. If the stamp is on the ink pad, the force is reduced by the drive. Thus, the ink pad is covered and does not dry out.

NOTE

Avoid applying force, tension and pressure or similar to the moving parts of the device. This can lead to damage.

5.3. Assembly

The device must be mounted on a flat surface. Use the holes on the bottom plate for fixing. After assembly, check the stamp movement.

NOTE

For a good stamp image please comply with the distance from the device to the product (see data sheet).

5.4. Electrical connection

CAUTION



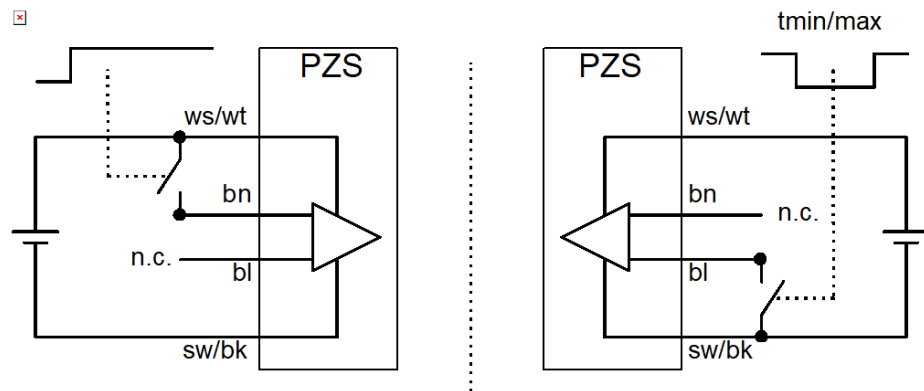
Destruction of the device due to incorrect operating voltage.
 Select the correct operating voltage.
 Before commissioning, check the operating voltage.

The device is available for two operating voltages (5V / 12-24V). Please note the information on the nameplate for this. The connection diagram of the connecting cable can be seen below.

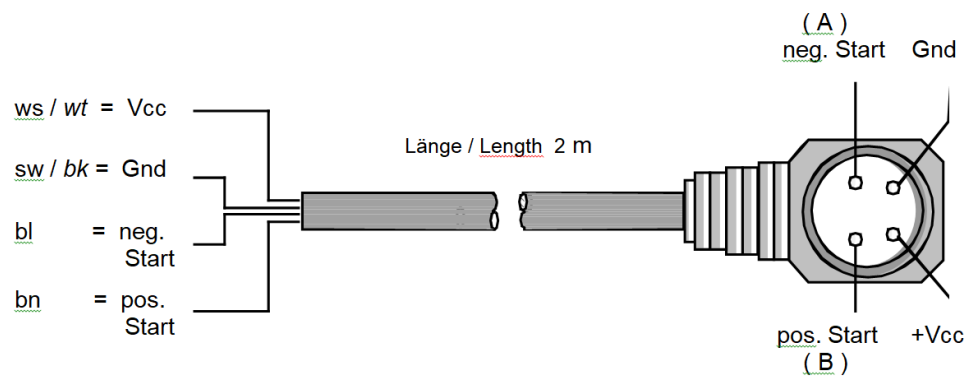
NOTE

Disconnect and insert the connecting cable only with disconnected supply voltage.

Block diagram: Control "positive start" or "negative start"



Connection cable assignment:



5.5. Commissioning

CAUTION



Destruction of the device due to incorrect operating voltage.
Select the correct operating voltage.
Check operating voltage before commissioning.

Switch on supply voltage.

Trigger the stamping process with the start pulse, alternatively press the button on the device next to the LED.

After checking the function, fill the stamping ink.

Perform a stamp test on the product to be marked.

5.6. Filling the stamping ink

CAUTION



Irritations from the stamping ink.
Avoid contact with skin and eyes.
Observe the safety data sheet of the ink manufacturer.

Use stamping ink in container with filler neck.

Manually move the stamp away from the starting position.

Check if the ink pad is completely visible.

Drop the stamping ink on the ink pad until it is wet.

Regular control of the ink pad and timely refilling prevents the ink from drying out.

NOTE

Shake stamping ink well before use.

6. Maintenance

Maintenance information:

- | | |
|------------------------|-----------|
| ▪ Inspection | Chap. 6.1 |
| ▪ Care and maintenance | Chap. 6.2 |
| ▪ Troubleshooting | Chap. 6.3 |
| ▪ Repair | Chap. 6.4 |

Maintenance includes all organisational and technical measures to ensure the safe and functional condition of the device.

Note

When adjusting the device mechanics, great care must be taken. The screw (threaded pin) of the lever on the motor shaft must be secured against loosening.

6.1. Inspection

During inspection, the device is inspected for external damage. The examination is carried out by visual inspection.

Schedule Always perform the inspection before starting work.

Authorised person The inspection is carried out by the operator who uses the device.

The operator must be trained and instructed for the inspection.

6.2. Care and maintenance

Disconnect and insert the connecting cable only with disconnected supply voltage.

Check connecting cable and plug regularly.

Keep the lever arms clean. To clean the crank mechanism, use the original cleaner for the stamping ink. After cleaning, check the bearings and, if necessary, moisten them with resin-free oil.

Regularly check the lever arms for smooth movement and wear.

If there is any sign of wear or if the crank mechanism does not operate smoothly, it must be replaced.

Attention! Secure the threaded pin on the motor shaft against loosening in a suitable manner.

Restart, see Commissioning.

6.3. Troubleshooting

Fault	Cause
No function	Supply voltage selected incorrectly, Start impulse too small ($t_{min} > 50ms$)
Stamp arm advances to stop	Start impulse too long ($t_{max} < 300ms$) Wrong connection (Gnd to start)
Stamp does not move out of the holder	Sticking caused by dried stamping ink
Stamp arm only drives to the middle	Mechanics are stuck

6.4. Repair

Repairs to the device are carried out exclusively by the manufacturer.

Contact the manufacturer in case of repair. Contact details, Chapter 1 manufacturer.

7. Disposal

Disposal is the proper, professional and legally compliant recycling or disposal of the device.

Schedule

Disposal takes place at the end of the life cycle of the device. The end of the life cycle is determined by the operator.

Responsible person

The manufacturer is responsible for the proper, professional and legally compliant recycling or disposal. The operator sends the device to be disposed of to the manufacturer.

Legal regulations

Disposal must be in accordance with the legislation of the country where the equipment is disposed of.