

Installation Instructions

CA72TOC

Conversion of PA-2 to PA-3



Table of contents

1 Overview 3

2 Intended use 3

3 Personnel authorized to carry out conversion 3

4 Safety instructions 3

5 Scope of delivery 5

6 Conversion instructions for sample conditioning system 5

7 Disposal 9

1 Overview

1.1 Spare parts kits

These installation instructions apply to the following spare parts kits:

Order code	Designation	Page
71295866	CA72xx Conversion of PA-2 to PA-3	→  5

2 Intended use

- The parts of the kits are to be used exclusively as spare parts for the CA72TOC analyzers . Any other use is not permitted!
- Only use original parts from Endress+Hauser.
- In the Device Viewer, check if the spare part is suitable for the device in question.

3 Personnel authorized to carry out conversion

- Installation, commissioning, operation and maintenance of the measuring system may be carried out only by specially trained technical personnel.
- The technical personnel must be authorized by the plant operator to perform the stated tasks.
- The electrical connection may only be established by an electrical technician.
- The technical personnel must have read and understood these Installation Instructions and must follow the instructions they contain.
- Measuring point faults may be repaired only by authorized and specially trained personnel.
- In the case of Ex-certified devices, the technical staff must also be trained in explosion protection.

 Repairs not described in the Operating Instructions provided must only be carried out directly at the manufacturer's site or by the service organization.

4 Safety instructions

WARNING

Risk of death from electrical shock!

- ▶ Perform work on the device with the utmost caution, especially when the device remains fully or partially powered on during maintenance tasks.
- ▶ Follow the instructions in the relevant chapters of this manual, as the procedure for electrical safety depends on the service kits used.
- ▶ All work must be carried out according to applicable safety standards.
- ▶ Follow the instructions in the Operating Instructions for the device.

⚠ CAUTION**Risk to health due to contact with reagents, chemicals or process solutions!**

- ▶ Wear protective gloves, protective goggles and protective clothing.
- ▶ Immediately rinse splashes with plenty of water and a 1% sodium bicarbonate solution (NaHCO_3 , baking soda).
- ▶ In case of eye contact, rinse the affected area with plenty of water and then seek medical advice. Show the relevant safety data sheet to the physician.
- ▶ Note the nationally applicable workplace safety regulations for the work area when handling toxic or corrosive chemicals.

⚠ CAUTION**Risk of infection when working with wastewater!**

- ▶ Wear protective gloves, protective goggles and protective clothing.
- ▶ Observe applicable workplace safety regulations.
- ▶ In case of eye contact, rinse the affected area with plenty of water and then seek medical advice. Show the relevant safety data sheet to the physician.

**Potential impact on the process**

Before decommissioning an active device, the potential impact on the overall process must be taken into account! This applies in particular when using the switching contacts, the analog signal outputs or the communication interface of the associated measuring instrument to control process variables. Coordinate service tasks with the operator!

The following must never be used for cleaning:

- Concentrated mineral acids or alkaline solutions
- Benzyl alcohol
- Methylene chloride
- High-pressure steam

5 Scope of delivery

5.1 71295866 Kit CA72xx Conversion of PA-2 to PA-3

The kit contains the following parts :

1 x	Sample conditioning system PA-3 (without screen)	1 x	O-ring ID 17 W 3 mm EPDM
1 x	Bypass screen	1 x	Kit instructions

6 Conversion instructions for sample conditioning system

6.1 Preparation

WARNING

Risk of death from electrical shock!

- **First switch off the main switch!** Then open the front and rear lower doors using the special key provided.

WARNING

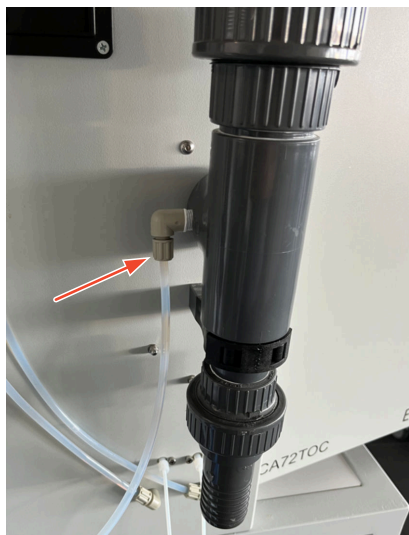
Risk of injury from leaking media!

- Remove the sample supply hose and drain hose from the sample conditioning system. Follow the warnings in the "Safety instructions" →  3 section!

6.2 Modification of PA-2 to PA-3

1. Remove hose **210** for flushing the filter at the sample conditioning system
→  1,  6.

 Not applicable to devices with line backflushing (order code: CA72TOC-xxxxxx+G5).



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 1 *Sample conditioning*

2. Remove the connector for sampling. Remove hose **201** first. Then remove the plastic connector including the metal nut →  2,  7.

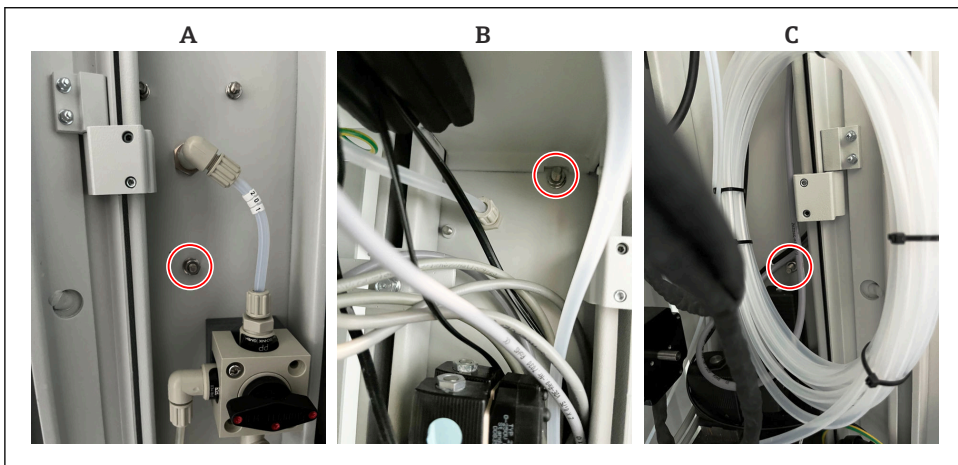
 Do not place the wrench on the plastic connector as it may be damaged by the wrench.



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2 Plastic connector

3. Remove sample conditioning system type PA-2 by loosening the 3 nuts → 3, 7.



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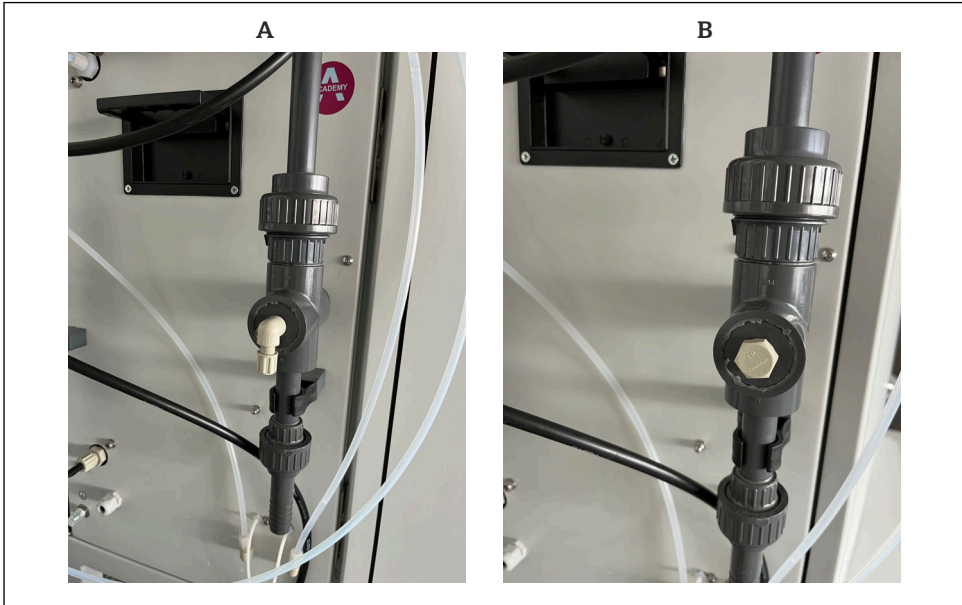
3 Releasing the sample conditioning system

4. Fit sample conditioning system type PA-3 and secure it with the 3 nuts → 3, 7.
5. Wrap Teflon tape around the thread of the plastic connector to seal it.

6. Screw the plastic connector for sampling into the metal nut →  2,  7.
7. Fit hose **201** back into the plastic connector.
8. Secure hose **210** for filter flushing once again. Use Teflon tape to seal it.

 In devices with line backflushing (order code: CA72TOC-xxxxxx+G5), this connection is sealed with a dummy plug (→  4,  8, B).

 In devices with line backflushing, hose **210** is permanently connected to the T-piece via the solenoid valves inside the device.



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 4 *Connections*

9. Fit the O-ring over the bypass screen →  5,  8.



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 5 *Bypass screen*

10. Open the sample conditioning system at the cap nut and insert the bypass screen into the filter chamber. The O-ring must be facing upwards.



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11. Seal the sample conditioning system at the cap nut once again.

6.3 Final tasks

1. Restore the supply of all media.
2. Switch on the analyzer at the main switch.
3. Check the seal of the liquid section as described in the Operating Instructions.
4. Restart the analyzer as described in the Operating Instructions.
5. Close all doors of the analyzer.

7 Disposal



If required by the Directive 2012/19/EU on waste electrical and electronic equipment (WEEE), the product is marked with the depicted symbol in order to minimize the disposal of WEEE as unsorted municipal waste. Do not dispose of products bearing this marking as unsorted municipal waste. Instead, return them to the manufacturer for disposal under the applicable conditions.



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