Operating Instructions
Flexdip CYA112
Wastewater assembly
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1 About this document

1.1 Warnings

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<tr>
<th>Structure of information</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DANGER</strong></td>
<td>This symbol alerts you to a dangerous situation. Failure to avoid the dangerous situation <strong>will</strong> result in a fatal or serious injury.</td>
</tr>
<tr>
<td>Causes /consequences</td>
<td>If necessary, Consequences of non-compliance (if applicable)</td>
</tr>
<tr>
<td>Corrective action</td>
<td></td>
</tr>
<tr>
<td><strong>WARNING</strong></td>
<td>This symbol alerts you to a dangerous situation. Failure to avoid the dangerous situation <strong>can</strong> result in a fatal or serious injury.</td>
</tr>
<tr>
<td>Causes /consequences</td>
<td>If necessary, Consequences of non-compliance (if applicable)</td>
</tr>
<tr>
<td>Corrective action</td>
<td></td>
</tr>
<tr>
<td><strong>CAUTION</strong></td>
<td>This symbol alerts you to a dangerous situation. Failure to avoid this situation can result in minor or more serious injuries.</td>
</tr>
<tr>
<td>Causes /consequences</td>
<td>If necessary, Consequences of non-compliance (if applicable)</td>
</tr>
<tr>
<td>Corrective action</td>
<td></td>
</tr>
<tr>
<td><strong>NOTICE</strong></td>
<td>This symbol alerts you to situations which may result in damage to property.</td>
</tr>
<tr>
<td>Cause/situation</td>
<td>If necessary, Consequences of non-compliance (if applicable)</td>
</tr>
<tr>
<td>Action/note</td>
<td></td>
</tr>
</tbody>
</table>

1.2 Symbols used

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>🚨</td>
<td>Additional information, tips</td>
</tr>
<tr>
<td>✅</td>
<td>Permitted or recommended</td>
</tr>
<tr>
<td>✗</td>
<td>Not permitted or not recommended</td>
</tr>
<tr>
<td>📚</td>
<td>Reference to device documentation</td>
</tr>
<tr>
<td>📚</td>
<td>Reference to page</td>
</tr>
<tr>
<td>📞</td>
<td>Reference to graphic</td>
</tr>
<tr>
<td>🔽</td>
<td>Result of a step</td>
</tr>
</tbody>
</table>

1.2.1 Symbols on the device

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>🚨📚</td>
<td>Reference to device documentation</td>
</tr>
</tbody>
</table>
2  Basic safety instructions

2.1  Requirements for personnel

- 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 carry out the specified activities.
- The electrical connection may be performed only by an electrical technician.
- The technical personnel must have read and understood these Operating Instructions and must follow the instructions contained therein.
- Faults at the measuring point may only be rectified by authorized and specially trained personnel.

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

2.2  Designated use

CYA112 is designed as a modular assembly system for sensors in unpressurized operation in open basins, channels and tanks.

The assembly is designed exclusively for use in liquid media.

Use of the device for any purpose other than that described, poses a threat to the safety of people and of the entire measuring system and is therefore not permitted.

The manufacturer is not liable for damage caused by improper or non-designated use.

2.3  Workplace safety

As the user, you are responsible for complying with the following safety conditions:

- Installation guidelines
- Local standards and regulations
- Regulations for explosion protection
2.4 Operational safety

Before commissioning the entire measuring point:

1. Verify that all connections are correct.
2. Ensure that electrical cables and hose connections are undamaged.
3. Do not operate damaged products, and protect them against unintentional operation.
4. Label damaged products as defective.

During operation:

- If faults cannot be rectified:
  products must be taken out of service and protected against unintentional operation.

2.5 Product safety

2.5.1 State-of-the-art technology

The product is designed to meet state-of-the-art safety requirements, has been tested, and left the factory in a condition in which it is safe to operate. The relevant regulations and international standards have been observed.
3  Product description

3.1  Product design

![Diagram of CYA112 assembly with annotations]

1  CYA112 assembly without float (left) and with float (right)

- 1  Multifunctional clamp ring
- 2  Immersion tube
- 3  Bracket
- 4  Float

The assembly is suitable for installation at different heights in a variety of basins.

The assembly must be installed depending on the ambient conditions.
4  Incoming acceptance and product identification

4.1  Incoming acceptance

1. Verify that the packaging is undamaged.
   ➤ Notify the supplier of any damage to the packaging.
   Keep the damaged packaging until the issue has been resolved.

2. Verify that the contents are undamaged.
   ➤ Notify the supplier of any damage to the delivery contents.
   Keep the damaged goods until the issue has been resolved.

3. Check that the delivery is complete and nothing is missing.
   ➤ Compare the shipping documents with your order.

4. Pack the product for storage and transportation in such a way that it is protected against impact and moisture.
   ➤ The original packaging offers the best protection.
   Make sure to comply with the permitted ambient conditions.

If you have any questions, please contact your supplier or your local Sales Center.

4.2  Product identification

4.2.1  Nameplate

The nameplate provides you with the following information on your device:
- Manufacturer identification
- Order code
- Extended order code
- Serial number
- Ambient and process conditions
- Safety information and warnings

➤ Compare the information on the nameplate with the order.

4.2.2  Identifying the product

Product page
www.endress.com/cya112

Interpreting the order code

The order code and serial number of your product can be found in the following locations:
- On the nameplate
- In the delivery papers

Obtaining information on the product

2. Call up the site search (magnifying glass).
3. Enter a valid serial number.
4. Search.
   ➤ The product structure is displayed in a popup window.
5. Click on the product image in the popup window.
   ➤ A new window (Device Viewer) opens. All of the information relating to your device is displayed in this window as well as the product documentation.

4.2.3 **Manufacturer's address**
Endress+Hauser Conducta GmbH+Co. KG
Dieselstraße 24
D-70839 Gerlingen

4.3 **Scope of delivery**
The scope of delivery comprises:
- Ordered version of assembly
- Operating Instructions

► If you have any queries:
   Please contact your supplier or local sales center.
4.4 Certificates and approvals

4.4.1 Ex approval

The stainless steel version of the CYA112 assembly (CYA112-\textasciitilde 21\textasciitilde 2\textasciitilde) may also be used in the hazardous area in Zone 1 and 2.

It does not have special Ex identification labeling, as the assembly does not have a potential ignition source of its own and ATEX Directive 2014/34/EU therefore does not apply.

If sensors have accessible metal surfaces, these sensors must be included in the potential equalization system as indicated in the Operating Instructions for the sensor in question.
5 Installation

5.1 Installation conditions

5.1.1 Mounting instructions

- Select the mounting location so that a sufficient distance to fixed installations is ensured. No damage to the sensor may occur even when the medium is moving.
- For fixed installation, select the retaining point so that the proper operation and maintenance of the assembly is guaranteed.
- The immersion tube must protrude over the retaining point by at least 100 mm (3.94 in).
- Potential equalization must be implemented at the place of installation.
- All electrically conductive parts must be interconnected.

For use in hazardous areas:
- There must be an electrically conductive connection between the immersion tube side of the assembly and the holder.
- If the assembly is secured using a chain and retaining bracket, a separate conductor for potential matching must be routed alongside the measuring cable.
- If sensors have accessible metal surfaces, these sensors must be included in the potential equalization system as indicated in the Operating Instructions for the sensor in question.
5.2 Mounting the assembly

For more information on mounting the assembly with the holder, see Operating Instructions BA00430C

5.2.1 Measuring system

A complete measuring system consists of:
- CYA112 assembly
- CYH112 holder
- Transmitter, e.g. Liquiline CM44
- Sensor, e.g. CUS71D

5.2.2 Mounting stainless steel parts

- Screw the tubes together finger-tight (no gaps).

The threads are lubricated and provided with an O-ring.
5.2.3 Gluing PVC parts

PVC assemblies measuring up to 1,200 mm (47.2 in) are delivered as ready-to-install units and do not have to be glued.

Cleaning cloths and adhesive are included in the delivery.

Gluing PVC parts

1. Clean the surfaces to be glued (exterior of pipe end, adhesive fitting or inside of connecting pipe) with the cleaning cloth.
2. Allow the cleaned surfaces to dry for approx. 5 minutes.
3. Apply the glue evenly (closed adhesive layer) to the surfaces (first adhesive fitting, then pipe).
4. Push the parts together to the end stop.
   \[\text{Join them within one minute.}\]
5. Remove any excess glue.
6. Allow the glued parts to harden for at least 5 minutes.

5.2.4 Mounting the sensor

Preparation:

1. Screw or glue the connecting pipe onto the immersion tube.
2. Where necessary, screw the sensor adapter onto the connection pipe.

![Diagram of Memosens sensor installation](image)

- **Cable routing**
  1. Splash protection cap
  2. Sensor cable
  3. Rubber plug
  4. Immersion tube

Mounting Memosens sensors

1. Route the sensor cable through the immersion tube.
2. Connect the sensor cable to the sensor.
3. Screw the sensor into the adapter or the connecting pipe.
4. Shorten the tip of the rubber plug to match the cable diameter.
5. Fit the rubber plug onto the sensor cable.
6. Press the rubber plug onto the immersion tube.
7. Route the sensor cable downwards in a loop (do not bend).
8. Fit the splash protection cap.
   ➥ The splash protection cap is fixed in place by the lip of the rubber plug.

Mounting sensors with a fixed cable
1. Route the sensor cable through the immersion tube.
2. Screw the sensor into the adapter or the connecting pipe.
3. In doing so, turn the assembly and not the sensor to ensure that the sensor cable is not twisted.
4. Shorten the tip of the rubber plug to match the cable diameter.
5. Fit the rubber plug onto the sensor cable.
6. Press the rubber plug onto the immersion tube.
7. Route the sensor cable downwards in a loop (do not bend).
8. Fit the splash protection cap.
   ➥ The splash protection cap is fixed in place by the lip of the rubber plug.

5.2.5 Fixed installation of the assembly on a transverse pipe
Prerequisite
The sensor is already mounted.

Mounting the cross clamp
1. Main pipe
2. Cross clamp, closed side facing center of basin
3. Cross clamp, closed side facing upwards
4. Transverse pipe of CYH112 holder

Mount the cross clamp in such a way that one closed side faces the center of the basin while the other closed side faces upwards → 5, 14.
Mounting the main pipe

1. Adjust the clamps on the cross clamp → 6, 15.
2. Slide the cross clamp over the main pipe.
   ◁ Make sure that the closed side of the cross clamp faces upwards → 5, 14.
3. Mount the multifunctional clamp ring on the immersion tube above the cross clamp (funnel-shaped side facing upwards → 8, 16).
   ◁ The multifunctional clamp ring acts as an anti-slip lock.
4. Attach the cross clamp, along with the immersion tube, to the transverse pipe of the bracket.
   ◁ Make sure that the closed side of the cross clamp faces towards the basin.
5. Align the assembly and the holder.
6. Tighten the clamp screws finger-tight. Finger-tight corresponds to 13 Nm (9.6 lbf ft).
5.2.6 Installing the assembly on a chain retainer

Prerequisite:
- The immersion tube is fitted with the sensor.
- The CYH112 holder with chain is installed.

For detailed information on the CYH112 holder, see Operating Instructions BA00430C

Installing the chain retainer:

1. Insert weights into the immersion tube (only for PVC immersion tubes).
2. Mount the multifunctional clamp ring on the immersion tube (with the funnel-shaped side pointing downwards → 8, 16).
3. Guide the bracket into the bottom chain link.
4. Hook the bracket into the multifunctional clamp ring.
5. Mount the sensor →  13.
6. Secure the chain on the holder with the triangular carabiner.
7. Determine the maximum immersion depth of the assembly.

The assembly may not be flooded. Pay attention to the maximum immersion depth for this purpose.

5.2.7 Installing the assembly with a float

![Diagram of float assembly]

![Diagram of float assembly]

10  Float mounting
1  Immersion tube with adhesive fitting and sensor adapter (ready-to-install ex works)
2  Float
3  Second immersion tube with 45° adhesive fitting

Preparation:
1. Fit the float (item 2) onto the immersion tube (item 1).
2. Glue the second immersion tube (item 3) and the adhesive fitting (item 3) onto the immersion tube (item 1) →  13.
3. Adjust the clamps on the cross clamp →  7,  15.
4. Slide the cross clamp over the immersion pipe →  5,  14.
   ➣ Make sure that the closed side of the cross clamp faces upwards.
5. Above the cross clamp, mount the multifunctional clamp ring on the immersion tube (funnel-shaped side facing upwards).
   - The multifunctional clamp ring acts as an anti-slip lock.

Mounting the sensor → 13

For detailed information on the CYH112 holder, see Operating Instructions BA00430C

Installing the assembly with a float:
1. Mount the sensor → 13.
2. Mount the float on the CYH112 pendulum holder.
3. Align the assembly and holder.
4. Tighten the clamp screws finger-tight (finger-tight corresponds to 13 Nm (9.6 lbf ft).

5.2.8 Installing the quick fastener

![Quick fastener](image)

11 Quick fastener
1  Bore hole (makes it easier to screw the adapter on tightly)
2  Adapter
3  Union nut
4  O-rings

Installing the quick fastener:
1. Provide both O-rings (item 4) with a thin film of lubricant.
2. Screw the adapter (item 2) into the connection pipe of the immersion tube.
3. Insert a screwdriver or a similar tool (serves as lever) through the bores (item 1).
4. Tighten the adapter with the screwdriver.
5. Slide the union nut (item 3) over the adapter until the union nut engages with a click.
6. Route the sensor cable through the quick fastener and the immersion tube.
   - The Memosens coupling is secured in the quick fastener and cannot slip.
7. Connect the cable to the sensor.
8. Guide the sensor through the quick fastener (hold the sensor steady when doing so).
9. Using the quick fastener, install the sensor without twisting the measuring cable.
10. Turn the union nut to tighten the sensor.
11. Align the sensor if necessary.
5.2.9  Disassembling the quick fastener

12  Removing the quick fastener

1  Quick fastener with union nut

13  Removing the quick fastener

2  Connection clips

14  Removing the quick fastener

3  Mounting tool

15  Removing the quick fastener

1  Quick fastener - union nut
3  Mounting tool
4  Quick fastener - adapter
Removing the quick fastener:

1. Move the union nut in the direction of the arrow until the stop position → 12, 19.
   → This pushes the two connection clips towards the center.

2. Fit the mounting tool onto the connection clips → 14, 19.

3. Push the mounting tool in firmly.
   → This releases the two connection clips from the fixture.

4. Remove the union nut and the mounting tool → 15, 19.

5. Unscrew the adapter from the immersion tube.

5.3 Post-installation check

- After mounting, check that all the screws are securely tightened.
- When fastening via the pendulum holder, check that the assembly can move freely.
6  Maintenance

⚠️ WARNING

Wastewater
There is a risk of infection when working with wastewater!
▶ Wear protective gloves, protective goggles and protective clothing.

6.1  Maintenance tasks

The immersion pipe tray makes it easier to perform maintenance tasks with rail mounting involving a pendulum holder and cross clamp.

6.1.1  Cleaning the clamps and threads

Lubricate the clamps and threads at regular intervals.

1. Clean the clamps and threads with soapy water.
2. Dry the clamps and threads.
3. Apply a thin film of lubricant to the cleaned parts (e.g. Syntheso Glep1).

6.1.2  Cleaning the quick fastener

1. Remove the sensor and the cable.
2. Insert the removal tool →  24 into the union nut.
   ◲ The union nut disengages and can be removed.
3. Clean the quick fastener with soapy water.
6.1.3 Checking the seals

- Check the seals on the sensor, quick fastener and assembly at regular intervals.
7 Repair

7.1 Return
The product must be returned if repairs or a factory calibration are required, or if the wrong product was ordered or delivered. As an ISO-certified company and also due to legal regulations, Endress+Hauser is obliged to follow certain procedures when handling any returned products that have been in contact with medium.

To ensure the swift, safe and professional return of the device:
- Refer to the website www.endress.com/support/return-material for information on the procedure and conditions for returning devices.

7.2 Disposal
- Please observe local regulations!
8 Accessories

The following are the most important accessories available at the time this documentation was issued.

- For accessories not listed here, please contact your Service or Sales Center.

Flexdip CYH112
- Modular holder system for sensors and assemblies in open basins, channels and tanks
- For Flexdip CYA112 water and wastewater assemblies
- Can be affixed anywhere: on the ground, on the coping stone, on the wall or directly onto railings.
- Stainless steel version
- Product Configurator on the product page: www.endress.com/cyh112

Technical Information TI00430C

Multifunctional clamp ring
- In the case of a chain retainer, the rear multifunctional clamp ring keeps the chain fixed in place.
- In the case of the main pipe and transverse pipe, adjust the working height on the main pipe with the multifunctional clamp ring.
- The multifunctional clamp ring acts as an anti-slip lock on transverse pipes, main pipes and on assemblies.
- Material: PA 6
- Order number: 71092049

![Multifunctional clamp ring. Dimensions: mm (in)](image)
**Immersion pipe tray**
- Is used to hold the immersion pipe during maintenance work
- Material: stainless steel 1.4404 (AISI 316L)
- Order number: 71092054

Wall holder set
- 2 pipe clamps D 40
- Material: PE
- 1 worm drive hose clip for height adjustment
- Order number: 71132469
19  Pipe clamp. Dimensions: mm (in)

Triangular carabiner
- Is used to secure the chain
- Material: stainless steel, quality V4A
- Order number: 71092052

20  Triangular carabiner. Dimensions: mm (in)

Hook-and-loop cable ties (set of 4)
- Is used to secure the cables
- Material: PE/PA (polyethylene/polyamide)
- Order number: 71092051

Mounting tool
- Tool to remove the quick fastener
- Material: stainless steel V4A
- Order number: 71093438
Quick fastener
- For quick and easy installation and replacement of sensors
- Material: POM - GF
- Including mounting tool 71093438
- Order number: 71093377

Sensor adapter NPT ¾"
- Sensor adapter from G 1" to NPT ¾"
- Material: POM - GF
- Order number: 71093382
Sensor adapter G ¾"
- Sensor adapter from G 1" to G ¾"
- Material: POM - GF
- Order number: 71093383

Sensor adapter Pg 13.5
- Sensor adapter from G 1" to Pg 13.5
- Material: POM - GF
- Order number: 71093384
**Immersion tube**

- Connection thread: M36
- Material: stainless steel
- Length x = 600 mm (23.6 in) order number: 71073767
- Length x = 1200 mm (47.3 in) order number: 71073706

**Straight connecting pipe for immersion tube**

- M36 to G 1"
- Material: stainless steel
- Order number: 71073768
45° connecting pipe for immersion tube
- M36 to G 1"
- Material: stainless steel
- Order number: 71073769

90° connecting pipe for immersion tube
- M36 to G 1"
- Material: stainless steel
- Order number: 71073770
Spray cleaning for CYA112 for mounting on immersion tube

- Version in 600 mm (23.6) and 1200 mm (47.2 in)
- For CYA112 assembly version: 600 to 2400 mm, straight
- Material:
  - Pipe: PVC-U
  - Spacer: PA
  - Worm drive hose clips: stainless steel 1.4401 (AISI 316)
- Order number for 600 mm (23.6) version: 71158245
- Order number for 1200 mm (47.2 in) version: 71158246

![Diagram of 90° connecting pipe. Dimensions: mm (in)](image)

![Diagram of Spray cleaning for CYA112. Dimensions: mm (in)](image)

A | Version: 1200 mm (47.4 in)
B | Version: 600 mm (23.6 in)
Example of mounted spray cleaning
9 Technical data

9.1 Environment

Ambient temperature range
-20 to 60 °C (-4 to 140 °F)

9.2 Process

Process temperature range
0 to 60 °C (32 to 140 °F)

Process pressure range
Unpressurized installation

9.3 Mechanical construction

Design, dimensions

<table>
<thead>
<tr>
<th>Immersion tube (PVC)</th>
<th>Ø 40 mm (1.6 in), lengths: 600 mm (23.6 in), 1200 mm (47.2 in), 1800 mm (70.9 in), 2400 mm (94.5 in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immersion tube (stainless steel)</td>
<td>Ø 40 mm (1.6 in), lengths: 600 mm (23.6 in), 1200 mm (47.2 in), 1800 mm (70.9 in), 2400 mm (94.5 in), 3600 mm (141.7 in)</td>
</tr>
</tbody>
</table>

Weight

- Immersion tube (PVC)
  - Length 600 mm (23.6 in): 0.3 kg (0.7 lb)
  - Length 1200 mm (47.2 in): 0.6 kg (1.3 lb)
  - Length 1800 mm (70.9 in): 0.95 kg (2.1 lb)
  - Length 2400 mm (94.5): 1.3 kg (2.8 lb)
- Immersion tube (stainless steel)
  - Length 600 mm (23.6 in): 0.6 kg (1.3 lb)
  - Length 1200 mm (47.2 in): 1.2 kg (2.6 lb)
  - Length 1800 mm (70.9 in): 1.8 kg (4.0 lb)
  - Length 2400 mm (94.5): 2.4 kg (5.3 lb)
  - Length 3600 mm (141.7 in): 3.5 kg (7.7 lb)
- Multifunctional clamp ring: 0.15 kg (0.33 lb)
- Weight for PVC immersion tube: 0.32 kg (0.71 lb)

Materials

<table>
<thead>
<tr>
<th>Immersion tube:</th>
<th>Stainless steel 1.4404 (AISI 316 L) or PVC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connecting pipe:</td>
<td>Stainless steel 1.4404 (AISI 316 L) or PVC</td>
</tr>
<tr>
<td>Weld-on threads:</td>
<td>Stainless steel 1.4571 (AISI 316 Ti) or PVC</td>
</tr>
<tr>
<td>Sensor adapter:</td>
<td>POM - GF</td>
</tr>
<tr>
<td>Quick fastener:</td>
<td>POM - GF</td>
</tr>
<tr>
<td>Multifunctional clamp ring:</td>
<td>PA 6</td>
</tr>
<tr>
<td>Cap for pipe end:</td>
<td>PE</td>
</tr>
<tr>
<td>Chain bracket:</td>
<td>Stainless steel 1.4571 (AISI 316 Ti) or 1.4404 (AISI 316 L)</td>
</tr>
<tr>
<td>O-rings:</td>
<td>EPDM</td>
</tr>
<tr>
<td>Float, yellow:</td>
<td>EVA (until mid-2012 approximately)</td>
</tr>
<tr>
<td>Float, black:</td>
<td>EPP (from mid-2012 approximately)</td>
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