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Technical Information
Dipfit CYA10

Submersible assembly for Wastewater, Surface-Water and Industrial applications

Application

CYA10 is an immersion assembly with a maximum immersion depth of 10 meters for:
- Monitoring surface water in groundwater wells, rivers and for brackish water and seawater
- Wastewater treatment
- Utilities

Dipfit CYA10 is compatible with all digital 12 mm Memosens sensors without liquid KCl reference and the following parameters:
- pH/ORP
- Conductivity
- Oxygen

Your benefits

- Easy, tool-free installation in well shafts, rivers and boilers thanks to a wide range of installation options (fixed with a flange connection or in combination with Flexdip CYH112)
- Time-saving maintenance of the measuring point due to the flexible hose of the assembly and easy accessibility of the sensor used, even if the assembly is extended to a significant immersion depth
- Easy implementation of measuring points with PG13.5 sensors ("12 mm") as the assembly is designed to be space-saving so that it can be installed in ducts/channels, boilers, sewage pipes or manholes
- Exceptional flexibility in the application thanks to the option of installing and operating the measuring points in sewage drains and covered clarifiers and in hazardous areas

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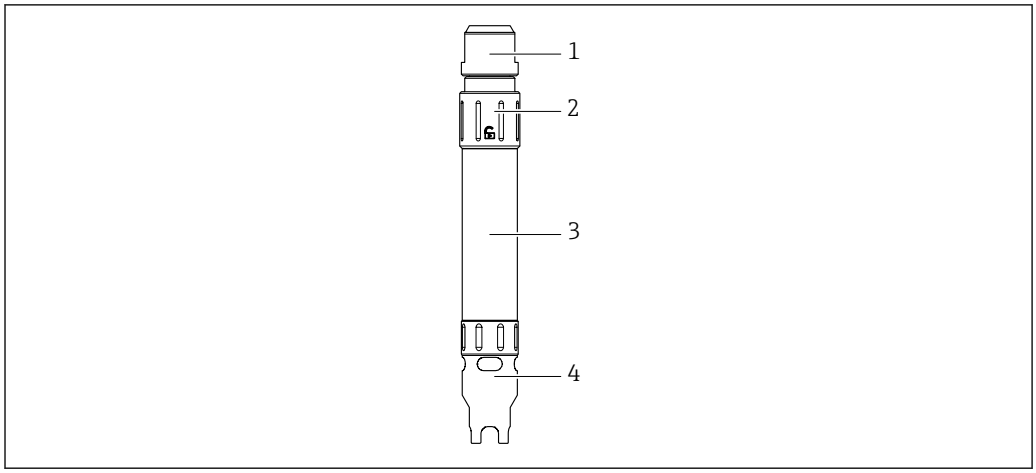
Function and system design

Product design

The assembly is designed for use in the water/wastewater/environmental sector:
- Tank or vessel, closed or open
- Open channels/flumes
- Water (rivers, lakes, sea)



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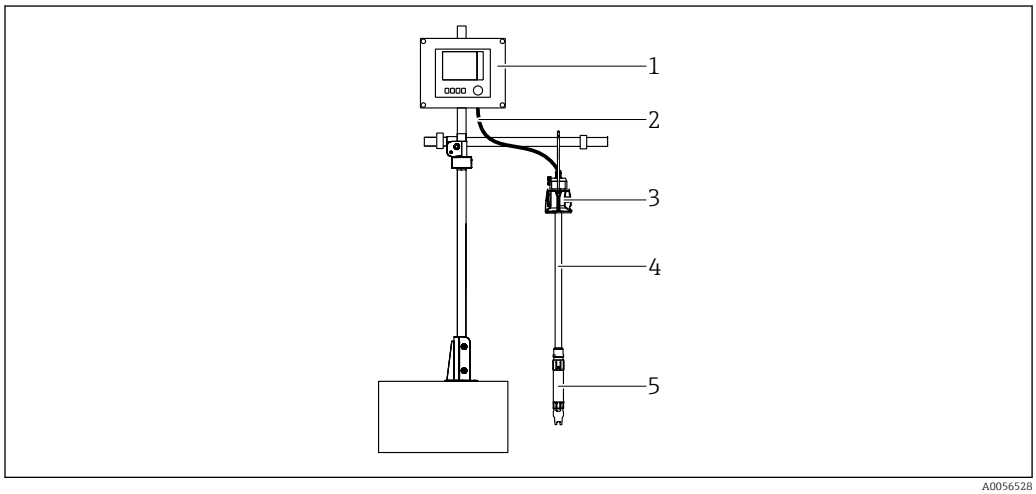
1 Product description of the individual parts

1 Hose gland
2 Plug cap
3 Assembly housing
4 Protective cap and cable mounting tool

Measuring system

A complete measuring system consists of:
- CYA10 assembly
- Memosens data cable CYK10
- Cable hose
- Process connection, e.g. chain holder
- Transmitter, e.g. Liquiline CM44
- Sensor, e.g. CPS11E



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2 Example of a measuring system with CYA10

1 Transmitter
2 Memosens data cable
3 Process connection
4 Cable hose
5 CYA10 assembly

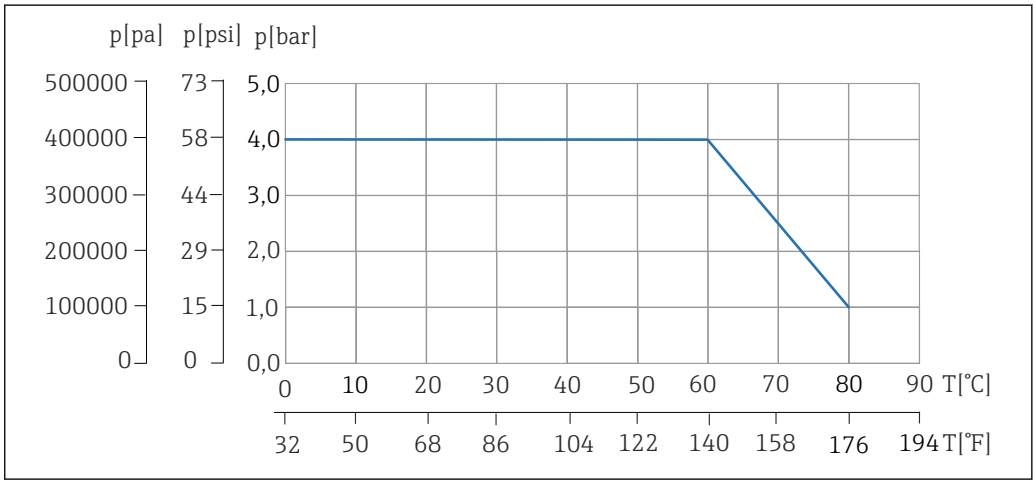
Environment

Ambient temperature range	0 to 60 °C (32 to 140 °F)
Storage temperature range	-15 to +60 °C (5 to +140 °F)

Process

Process temperature range	0 to 60 °C (32 to 140 °F), non-freezing
Process pressure range	0 to 4 bar (0 to 58 psi) relative

Pressure/temperature rating

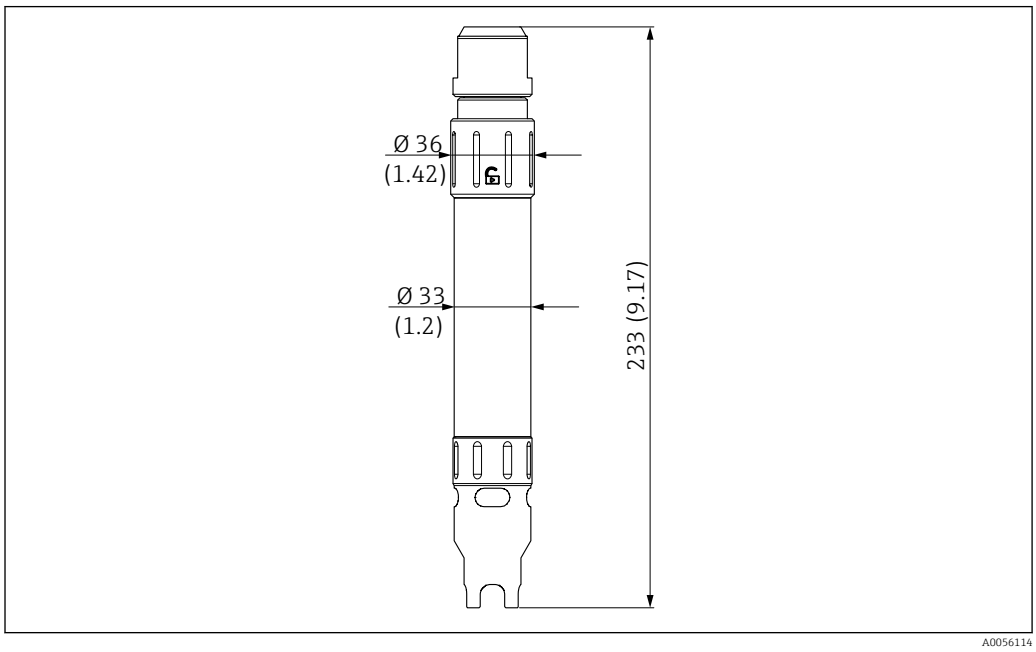


3 Pressure/temperature rating

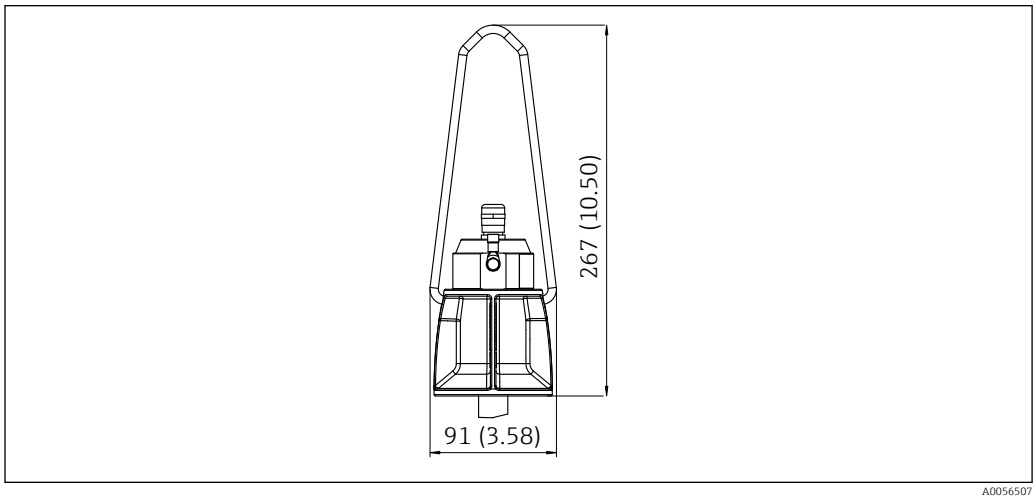
T Temperature
p Pressure

Mechanical construction

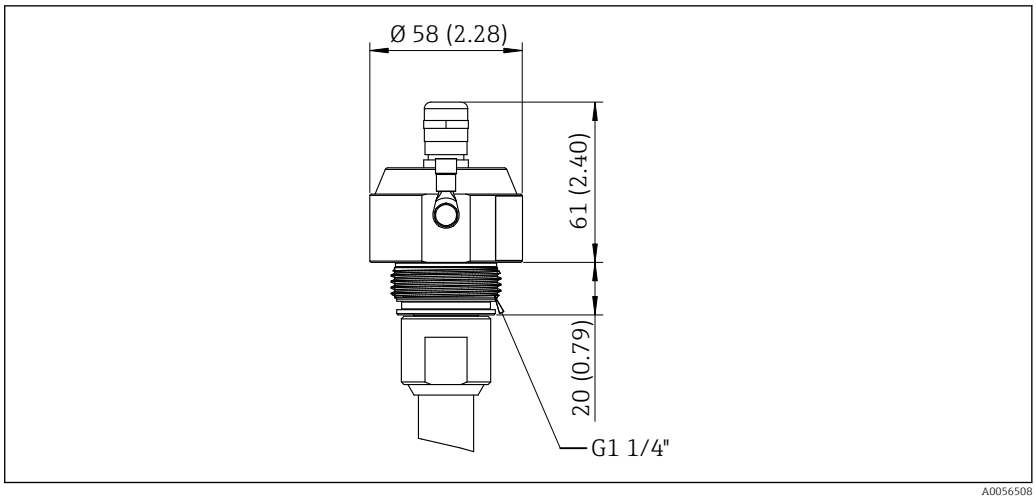
Design, dimensions



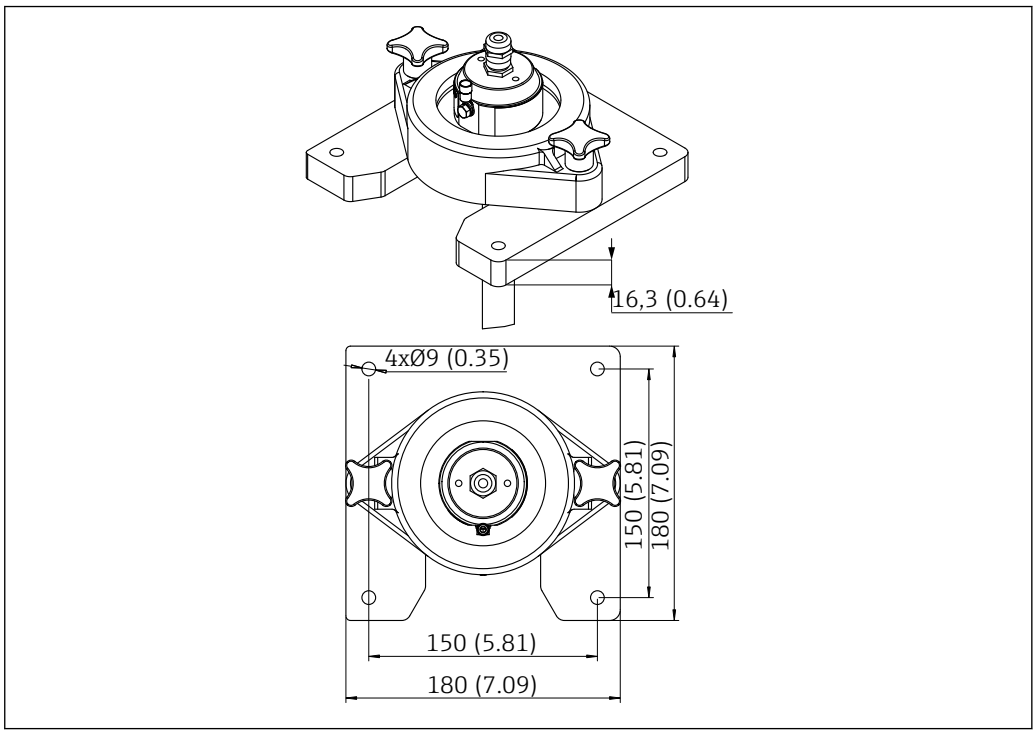
4 Dimensions, CYA10 assembly. Unit of measurement mm (in)



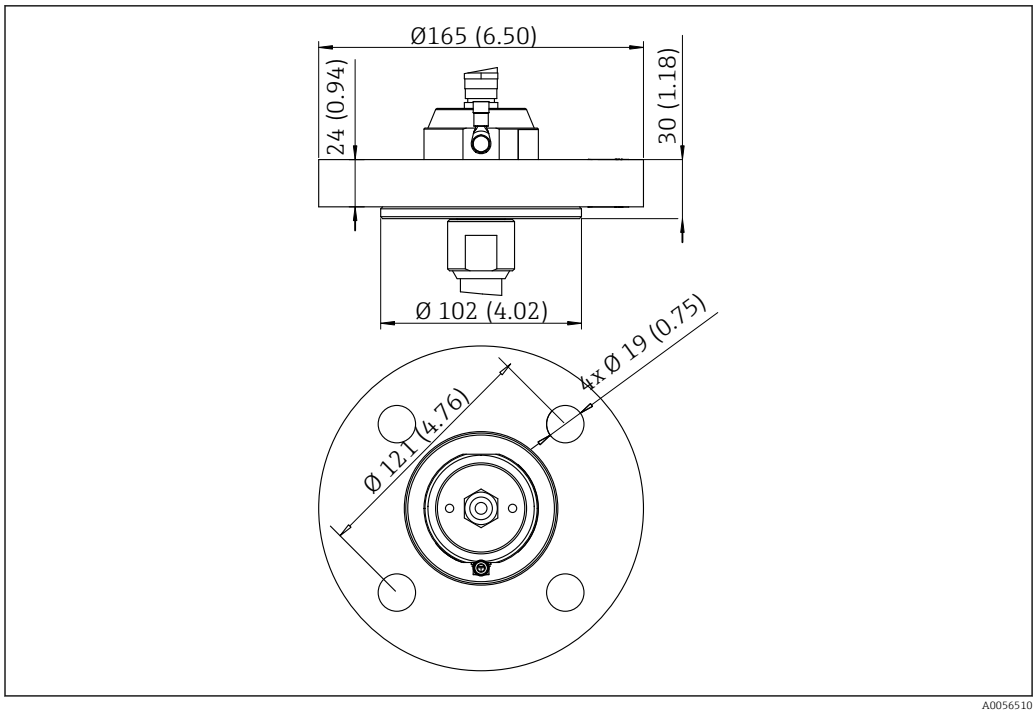
5 Dimensions, chain holder process connection. Unit of measurement mm (in)



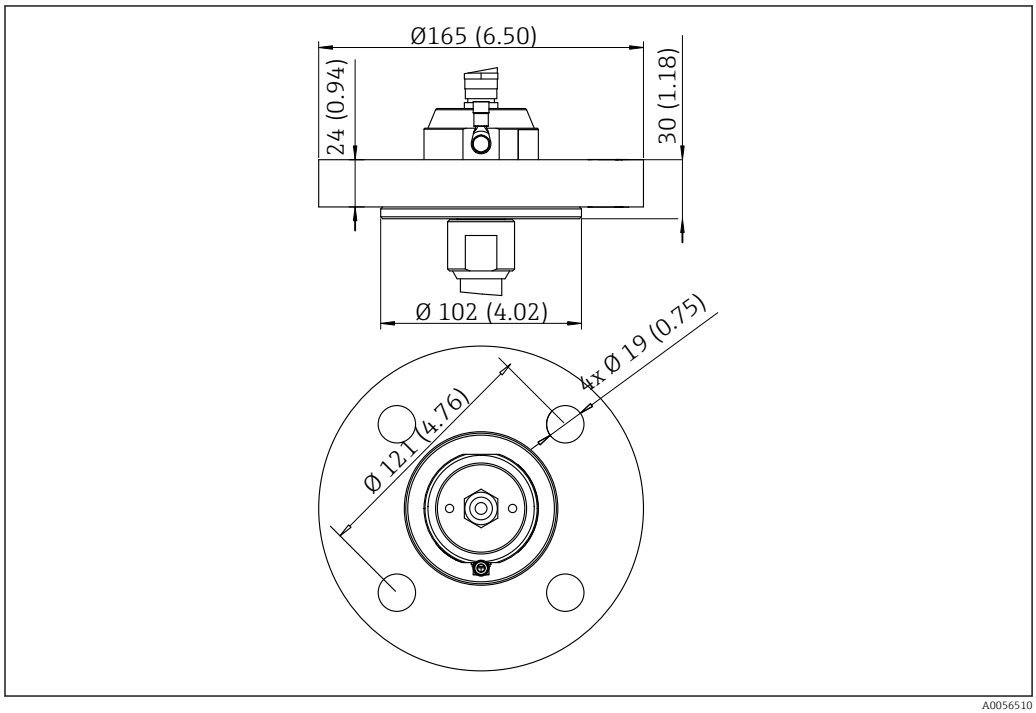
6 Dimensions, CYA10-ISO228-G1_1_4 process connection. Unit of measurement mm (in)



7 Dimensions, CYA10 oval flange process connection. Unit of measurement mm (in)



8 Dimensions, CYA10-ASME-B16.5-2 inch process connection. Unit of measurement mm (in)



9 Dimensions, CYA10-EN1092-DN50 process connection. Unit of measurement mm (in)

Weight

Hose length	Weight
1 m (3.28 ft)	1.5 kg (3.3 lb) approx.
3 m (9.84 ft)	2.1 kg (4.63 lb) approx.
5 m (16.40 ft)	2.8 kg (6.17 lb) approx.
10 m (32.8 ft)	4.4 kg (9.7 lb) approx.

Materials

	Non-hazardous area	Hazardous area
Wetted housing parts	PE-UHMW	PE-UHMW ELS*
Hose	EPDM	EPDM ELS*
O-rings	EPDM	EPDM
Lap joint flanges	PP	PP
Oval flange parts	PP	PP
Chain holder	PA6/1.4404/A4	PA6/1.4404/A4
Cable gland	1.4305	1.4305
Clamping ring	PP	PP ELS*
Plug fuse	PBT-GF30	PBT-GF30

* ELS = Electrically conductive

Certificates and approvals

Current certificates and approvals for the product are available at www.endress.com on the relevant product page:

1. Select the product using the filters and search field.
2. Open the product page.
3. Select **Downloads**.

The following declarations are available for the assembly:
- Complies with the Pressure Equipment Directive (PED)
- Approved for use in the hazardous area (optional)

Ordering information

Product page

www.endress.com/cya10

Product Configurator

1. **Configure**: Click this button on the product page.
2. Select **Extended selection**.
   ↳ The Configurator opens in a separate window.
3. Configure the device according to your requirements by selecting the desired option for each feature.
   ↳ In this way, you receive a valid and complete order code for the device.
4. **Accept**: Add the configured product to the shopping cart.

For many products, you also have the option of downloading CAD or 2D drawings of the selected product version.

5. **CAD**: Open this tab.
   ↳ The drawing window is displayed. You have a choice between different views. You can download these in selectable formats.

Scope of delivery

The scope of delivery comprises:
- Assembly
- Process connection in the version ordered
- Cable hose
- Memosens data cable CYK10
- Operating Instructions

Accessories

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

Listed accessories are technically compatible with the product in the instructions.

1. Application-specific restrictions of the product combination are possible.
   Ensure conformity of the measuring point to the application. This is the responsibility of the operator of the measuring point.
2. Pay attention to the information in the instructions for all products, particularly the technical data.
3. For accessories not listed here, please contact your Service or Sales Center.

Device-specific accessories

Memosens data cable CYK10
- For digital sensors with Memosens technology
- Product Configurator on the product page: www.endress.com/cyk10

Technical Information TI00118C

Sensors

pH sensors

Memosens CPS11E
- pH sensor for standard applications in process and environmental engineering
- Digital with Memosens 2.0 technology
- Product Configurator on the product page: www.endress.com/cps11e

Technical Information TI01493C

Memosens CPS12E
- ORP sensor for standard applications in process and environmental engineering
- Digital with Memosens 2.0 technology
- Product Configurator on the product page: www.endress.com/cps12e

Technical Information TI01494C

Memosens CPS16E
- pH/ORP sensor for standard applications in process technology and environmental engineering
- Digital with Memosens 2.0 technology
- Product Configurator on the product page: www.endress.com/cps16e

Technical Information TI01600C

Memosens CPS31E
- pH sensor for standard applications in drinking water and swimming pool water
- Digital with Memosens 2.0 technology
- Product Configurator on the product page: www.endress.com/cps31e

Technical Information TI01574C

Oxygen sensors

Memosens COS22E
- Hygienic amperometric oxygen sensor with maximum measurement stability over multiple sterilization cycles
- Digital with Memosens 2.0 technology
- Product Configurator on the product page: www.endress.com/cos22e

Technical Information TI01619C

Memosens COS81E
- Hygienic optical oxygen sensor with maximum measurement stability over multiple sterilization cycles
- Digital with Memosens 2.0 technology
- Product Configurator on the product page: www.endress.com/cos81e

Technical Information TI01558C

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