# Technical Information **Ecofit CPA640**

Universal compact assembly for the installation of 120 mm sensors for all areas of water management and industry



### Application

Ecofit CPA640 is a universal process assembly for the permanent installation of 120 mm sensors (Pg 13.5) in water and process applications (utilities) in NPT process connections. The assembly is designed for installation in pipes in:

- wastewater treatment plants
- water treatment
- condensate treatment
- cooling water circuits

It can be used at pressures of up to 10 bar.

### Your benefits

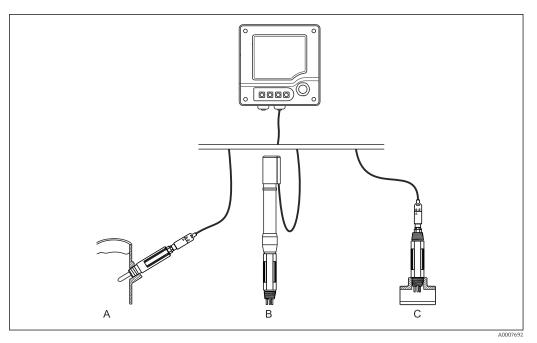
- Simple and flexible
  - Installation of standard sensors with Pg 13.5 and 120 mm (4.72 in) length into existing adapters or assemblies with NPT connections
  - Threaded connection for fast installation/removal
- Robust and reliable
  - PVDF or stainless steel 316L (1.4404/1.4435)
  - Version with basket protector available to protect glass electrodes
  - Process seal available in a variety of materials: VITON, EPDM, KALREZ, CHEMRAZ
- Cost-reducing
- Enables the economical use of gel or KCl sensors with Memosens technology
- For standard connections such as NPT <sup>1</sup>/<sub>2</sub>" and NPT <sup>3</sup>/<sub>4</sub>"



# Function and system design

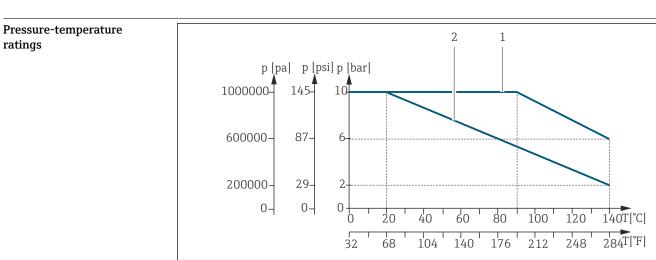
### Measuring system

- A complete measuring system comprises:
- Ecofit CPA640 installation adapter
- Sensor with Pg 13.5, length 120 mm, e.g. Orbisint CPS11D
- Transmitter, e.g. Liquiline CM42
- Measuring cable, e.g. CYK10



• 1 Measuring system with CPA640, transmitter (CM42), sensor and cable

- Direct installation at NPT process connection Α
- Installation in immersion assembly (CYA611) В
- С Installation in flow assembly



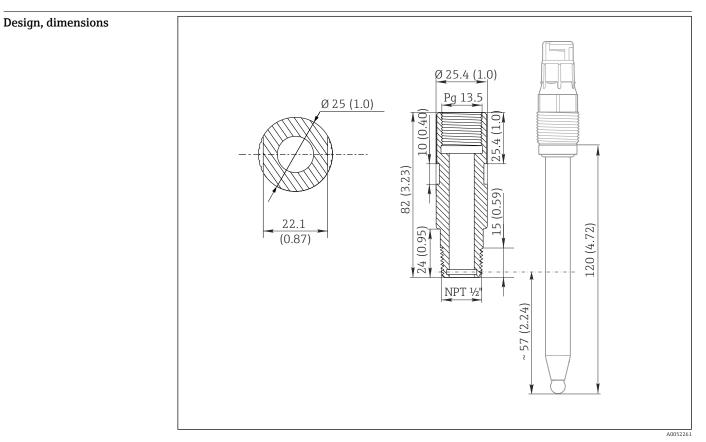
# **Process**

- ₽ 2 temperature/pressure ratings
- Stainless steel 1.4404/1.4435 (AISI 316L), MONEL 1
- 2 PVDF

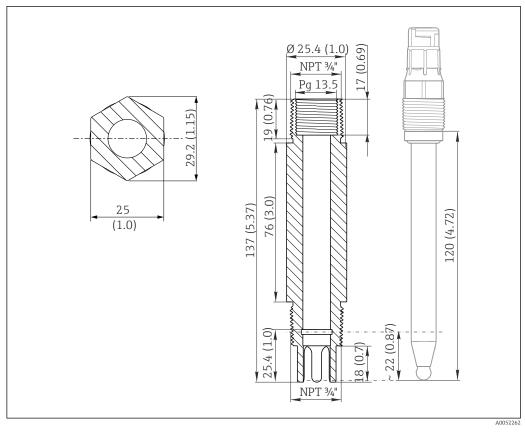
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ratings

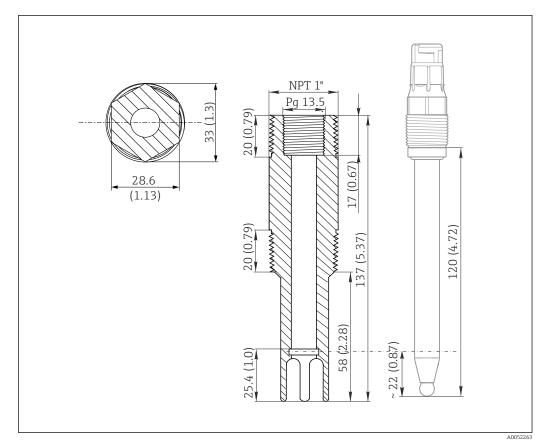
# Mechanical construction



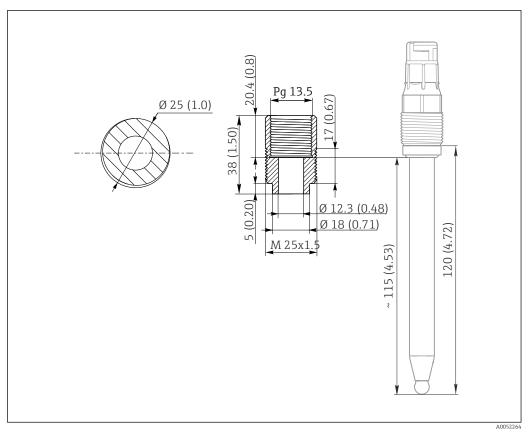
### ■ 3 CPA640-A/B\*\*\*. Unit of measurement mm (in)

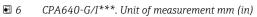


☑ 4 CPA640-C/D\*\*\*. Unit of measurement mm (in)



## $\blacksquare$ 5 CPA640-E<sup>\*\*\*</sup>. Unit of measurement mm (in)





### Approx. 0.1 to 0.3 kg (0.22 to 0.66 lbs) depending on the version

Materials	Adapter body		
	CPA640-A/C/E/G***	PVDF (polyvinylidenefluoride)	
	CPA640-B/D***	Stainless steel 316L (1.4404/14435))	
	CPA640-I***	MONEL	
	Sealing ringFDM (VITON), EPDM, CHEMRAZ, KALREZEndress+Hauser supplies DIN/EN process connections with stainless steel threaded connection in accordance with AISI 316L (DIN/EN material number 1.4404 or 14435).In terms of their stability-temperature property, the materials 1.4404 and 1.4435 are grouped in EI 1092-1 table 18 under 13E0. The chemical composition of the two materials can be identical.		
	<ul> <li>The assembly is designed for it</li> <li>Appropriate process connectio</li> <li>Make sure the orientation is contracted or an experimentation of the orientation of the orienta</li></ul>	nstallation on containers or pipes. ns must be provided for the installation. prrect. Information can be found in the manual of the sensor used.	
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	<ul> <li>The assembly is designed for in</li> <li>Appropriate process connection</li> <li>Make sure the orientation is connections depend on the Assembly version</li> </ul>	Installation on containers or pipes. Ins must be provided for the installation. Information can be found in the manual of the sensor used. In assembly version: Process connection	

M25x1.5

# Ordering information

CPA640-G/I\*\*\*

Product page	<ol> <li>www.endress.com/cpa640</li> <li>Configure: Click this button on the product page.</li> <li>Select Extended selection.</li> </ol>	
Product Configurator		
	└ 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.	
	<b>4. Apply</b> : 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. Show details: Open this tab for the product in the shopping cart.	
	The link to the CAD drawing is displayed. If selected, the 3D display format is displayed along with the option to download various formats.	
Scope of delivery	<ul><li>The scope of delivery comprises:</li><li>Ordered version of assembly</li><li>Operating Instructions</li></ul>	

### Certificates and approvals

Current certificates and approvals for the product are available at <a href="www.endress.com">www.endress.com</a> on the relevant product page:

1. Select the product using the filters and search field.

2. Open the product page.

3. Select Downloads.

# 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.

#### Sensors (selection)

# pH sensors

- Ceragel CPS71
- pH electrode with reference system including ion trap
- Product Configurator on the product page: www.endress.com/cps71
- Technical Information TI00245C

### Memosens CPS71E

- pH sensor for chemical process applications
- Digital with Memosens 2.0 technology
- Product Configurator on the product page: www.endress.com/cps71e

Technical Information TI01496C

### Ceraliquid CPS41

- pH electrode with ceramic junction and KCl liquid electrolyte
- Product Configurator on the product page: www.endress.com/cps41

Technical Information TI00079C

#### Memosens CPS41E

- pH sensor for process technology
- With ceramic junction and KCl liquid electrolyte
- Digital with Memosens 2.0 technology
- Product Configurator on the product page: www.endress.com/cps41e

Technical Information TI01495C

### Memosens CPS77E

- Sterilizable and autoclavable ISFET sensor for pH measurement
- Digital with Memosens 2.0 technology
- Product Configurator on the product page: www.endress.com/cps77e

Technical Information TI01396

### **ORP** sensors

### Ceragel CPS72

- ORP electrode with reference system including ion trap
- Product Configurator on the product page: www.endress.com/cps72

Technical Information TI00374C

#### Memosens CPS72E

- ORP sensor for chemical process applications
- Digital with Memosens 2.0 technology
- Product Configurator on the product page: www.endress.com/cps72e

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Technical Information TI01576C

### Oxygen sensors

#### Oxymax COS22

- Sterilizable sensor for dissolved oxygen
- With Memosens technology or as an analog sensor
- Product Configurator on the product page: www.endress.com/cos22

Technical Information TI00446C

### 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



### www.addresses.endress.com

