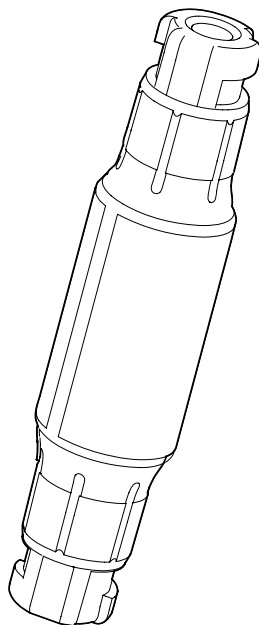


# Operating Instructions

## Memocheck CYP02E

Service tool for fast checking of measuring systems









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
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# 1 About this document

## 1.1 Warnings

Structure of information	Meaning
<p> <b>DANGER</b></p> <p><b>Causes (/consequences)</b> If necessary, Consequences of non-compliance (if applicable)</p> <ul style="list-style-type: none"> <li>▶ Corrective action</li> </ul>	<p>This symbol alerts you to a dangerous situation. Failure to avoid the dangerous situation <b>will</b> result in a fatal or serious injury.</p>
<p> <b>WARNING</b></p> <p><b>Causes (/consequences)</b> If necessary, Consequences of non-compliance (if applicable)</p> <ul style="list-style-type: none"> <li>▶ Corrective action</li> </ul>	<p>This symbol alerts you to a dangerous situation. Failure to avoid the dangerous situation <b>can</b> result in a fatal or serious injury.</p>
<p> <b>CAUTION</b></p> <p><b>Causes (/consequences)</b> If necessary, Consequences of non-compliance (if applicable)</p> <ul style="list-style-type: none"> <li>▶ Corrective action</li> </ul>	<p>This symbol alerts you to a dangerous situation. Failure to avoid this situation can result in minor or more serious injuries.</p>
<p> <b>NOTICE</b></p> <p><b>Cause/situation</b> If necessary, Consequences of non-compliance (if applicable)</p> <ul style="list-style-type: none"> <li>▶ Action/note</li> </ul>	<p>This symbol alerts you to situations which may result in damage to property.</p>

## 1.2 Symbols

Symbol	Meaning
	Additional information, tips
	Permitted or recommended
	Not permitted or not recommended
	Reference to device documentation
	Reference to page
	Reference to graphic
	Result of a step

### 1.3 Supplementary documentation

The following manuals which complement these Operating Instructions can be found on the product pages on the Internet:

- Operating Instructions for the transmitter used
- Operating Instructions for the measuring cable used




Supplementary safety instructions and information on electrical equipment in hazardous areas: **XA02116C**

## 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

Memocheck CYP02E is a service tool that simulates measured values for fast on-site checking of measuring systems incorporating Memosens technology.

Memocheck CYP02E **is not** suitable for use directly in the process.

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 European standards have been observed.

## 3 Product description

Memocheck CYP02E consists of two interconnected sensor plug-in heads which are independent of one another, and which each supply one specific parameter. You can simulate the following values depending on your order:

*Simulation values output for pH glass and pH ISFET*

	Fixed simulation value	Temperature
pH glass	4	25 °C (77 °F)
pH ISFET	7	60 °C (140 °F)

*Simulation values output for pH glass and pH glass*

	Fixed simulation value	Temperature
pH glass	4	25 °C (77 °F)
pH glass	7	60 °C (140 °F)

*Simulation values output for pH glass and ORP*

	Fixed simulation value	Temperature
pH glass	4	25 °C (77 °F)
ORP potential	750 mV	90 °C (194 °F)

*Simulation values output for pH glass and oxygen*

	Fixed simulation value	Temperature
pH glass	4	25 °C (77 °F)
Oxygen	60 nA <sup>1)</sup>	60 °C (140 °F)

1) Sensor current

*Simulation values output for pH glass and conductive measurement of conductivity*

	Fixed simulation value	Temperature
pH glass	4	25 °C (77 °F)
Conductivity	20 µS/cm	60 °C (140 °F)

*Simulation values output for pH glass and chlorine*

	Fixed simulation value	Temperature
pH glass	4	25 °C (77 °F)
Chlorine	60 nA <sup>1)</sup>	25 °C (77 °F)

1) Sensor current

The data listed above are displayed on the transmitters.

Memocheck CYP02E is maintenance-free.

## 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 (→ Technical data).

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



## 4.2 Product identification

### 4.2.1 Type code

The nameplate provides you with the following information on your device:

- Manufacturer details
- Order code
- Serial number
- Safety information and warnings

► Compare the information on the nameplate with the order.

### 4.2.2 Product identification

#### Product page

[www.endress.com/CYP02E](http://www.endress.com/CYP02E)

### 4.2.3 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

1. Open the product website.
2. At the bottom of the page, select the link **Online Tools** and then select **Access device specific information** .
  - ↳ An additional window opens.
3. Enter the order code from the nameplate into the search field. Then select **Show details** .
  - ↳ Details of each feature (selected option) of the order code are displayed.

### 4.2.4 Manufacturer's address

Endress+Hauser Conducta GmbH+Co. KG  
Dieselstraße 24  
D-70839 Gerlingen

### 4.2.5 Scope of delivery

#### Memocheck Plus CYP02E

- 1 Memocheck CYP02E with 2 plug-in heads
- 1 x Operating Instructions

## 4.3 Certificates and approvals

### 4.3.1 CE mark

#### Declaration of Conformity

The product meets the requirements of the harmonized European standards. As such, it complies with the legal specifications of the EU directives. The manufacturer confirms successful testing of the product by affixing to it the CE mark.

## 5 Repair

### 5.1 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](http://www.endress.com/support/return-material) for information on the procedure and conditions for returning devices.

### 5.2 Disposal

The device contains electronic components. The product must be disposed of as electronic waste.

- ▶ Observe the local regulations.

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