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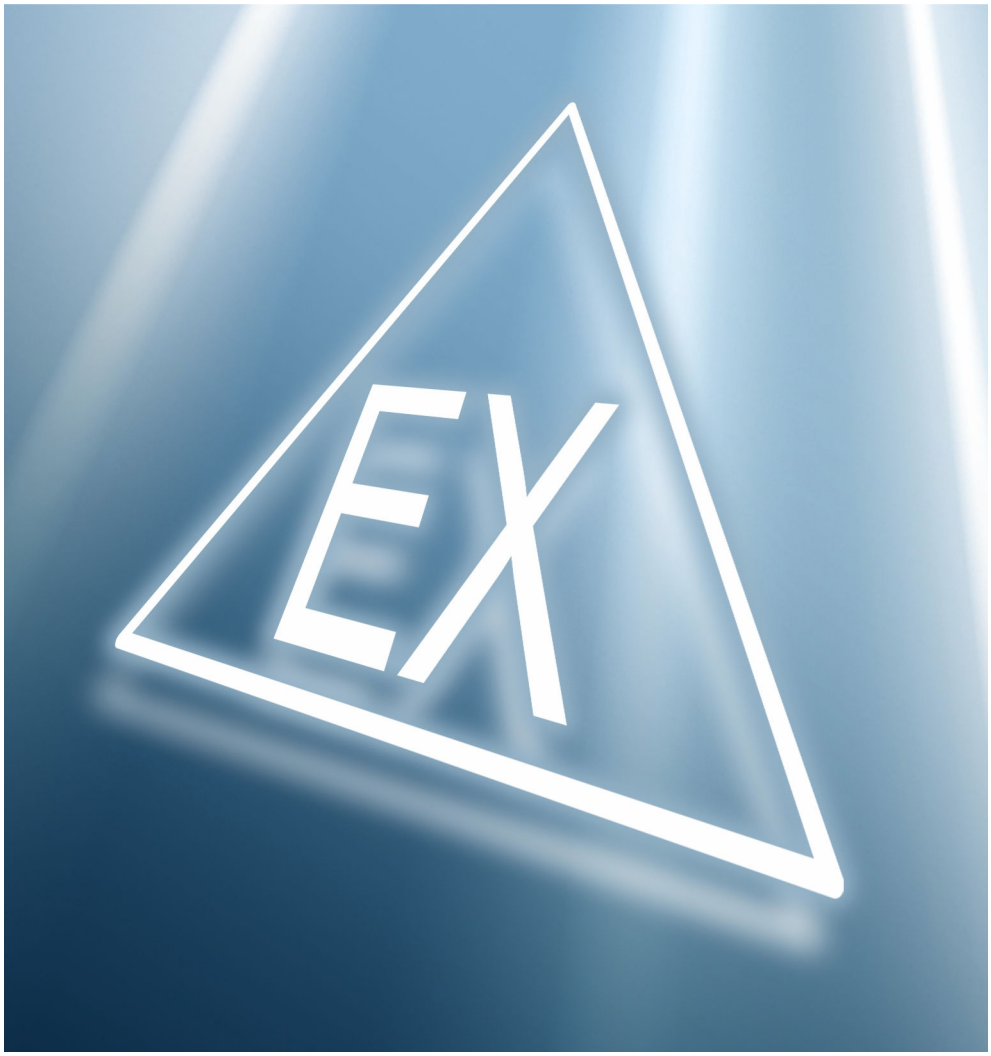
# Safety Instructions
# **Memocheck CYP02E**

Supplement to BA02017C

Safety instructions for electrical apparatus in explosion-hazardous areas




Endress+Hauser
People for Process Automation

# Memocheck CYP02E

Supplement to BA02017C

## Table of contents

**Associated documentation**

This document is an integral part of Operating Instructions BA02017C.

**Supplementary documentation**

Competence Brochure CP00021Z
- Explosion Protection: Guidelines and General Principles
- www.endress.com

**Certificates**

NEPSI certificate of conformity, certificate number: GYJ19.1375X

**Identification**

The nameplate provides you with the following information on your device:
- Manufacturer identification
- Order code
- Extended order code
- Serial number
- Safety information and warnings
- Ex marking on hazardous area versions

▶ Compare the information on the nameplate with the order.

### Type code

| Type | Version | | | | |
|---|---|---|---|---|---|
| CYP02E- | NB | * | ** | *** | +* |
| | NEPSI Ex ia IIC T6 Gb | No Ex relevance | | | |

### Certificates and approvals

*Hazardous area approvals*

The sensor simulators, type CYP02E-******b+*, have been certified by the National Supervision and Inspection Centre for Explosion Protection and Safety of Instrumentation (NEPSI). These products meet the following standards:

- GB 3836.1-2010 Explosive atmospheres-Part 1: Equipment-General requirements
- GB 3836.4-2010 Explosive atmospheres-Part 4: Equipment protection by intrinsic safety "i"

**CYP02E:**

NEPSI Ex ia IIC T6 Gb

**Safety instructions**

The Memocheck CYP02E inductive sensor simulator is suitable for use in explosion-hazardous areas according to:
- NEPSI certificate GYJ19.1375X
- The Memocheck CYP02E sensor simulator must not be operated under electrostatically critical process conditions. Avoid strong steam or dust currents that act directly on the connection system.
- Ex-protected digital sensor simulators with Memosens technology are identified by an orange-red ring on the terminal head.

- The procedures for electrical connection described in the Operating Instructions must be followed.
- The Memocheck CYP02E sensor simulator is not suitable for use directly in the process.
- The end user must adhere to the Operating Instructions and the following standards for the installation, operation and maintenance of the product:
  - GB 50257-2014 "Code for construction and acceptance of electric device for explosion atmospheres and fire hazard electrical equipment installation engineering"
  - GB 3836.13-2013 "Explosive atmospheres - Part 13: Equipment repair, overhaul and reclamation"
  - GB/T 3836.15-2017 "Explosive atmospheres - Part 15: Electrical installations design, selection and erection"
  - GB/T 3836.16-2017 "Explosive atmospheres - Part 16: Electrical installations inspection and maintenance"
  - GB/T 3836.18-2017 "Explosive atmospheres - Part 18: Intrinsically safe electrical systems"

## Temperature tables

| Sensor | Temperature class | Process temperature $T_p$ | Ambient temperature $T_a$ |
|---|---|---|---|
| CYP02E | T6 | Memocheck CYP02E is not suitable for use directly in the process | -15 °C ≤ $T_a$ ≤ +70 °C |

## Connection

### Ex specification

- The Memocheck sensor simulators, type series CYP02E, are approved according to the NEPSI certificate GYJ19.1375X and are suitable for use in explosion-hazardous environments.
- The approved CYP02E-type Memocheck sensor simulators have an intrinsically safe input with the following parameter set:

| Parameter | Value |
|---|---|
| $P_i$ | 180 mW |

The approved CYP02E-type Memocheck sensor simulators must be connected to a Memosens measuring cable with an intrinsically safe output with the following parameter set:

| Parameter | Value |
|---|---|
| $P_o$ | Maximum 180 mW |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