

# Safety Instructions

## **Memocheck CYP02E**

Supplement to BA02017C

Safety instructions for electrical apparatus in explosion-hazardous areas



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Supplement to BA02017C

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**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](http://www.endress.com)

**Certificates**

JPN type-examination certificate, certificate number: CML 19JPN2485X

**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	*	**	***	+*
CYPO2E-	JE				
	JPN Ex ia IIC T6 Gb	No Ex relevance			

**Certificates and approvals**

*Hazardous area approval*

The product meets the requirements of the Regulation on the Testing of Machinery and other Instruments set down by the Ministry of Health, Labor and Welfare in Japan.

JPN Ex ia IIC T6 Gb

**Safety instructions**

The Memocheck CYPO2E inductive sensor simulator is suitable for use in explosion-hazardous areas according to:

- JPN type-examination certificate CML 19JPN2485X including appendices
- The Memocheck CYPO2E 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.
- When using devices and sensors, observe the guidelines for interconnecting intrinsically safe circuits (e.g. JNIOOSH-TR-NO.44).
- The procedures for electrical connection described in the Operating Instructions must be followed.
- The Memocheck CYPO2E sensor simulator is not suitable for use directly in the process.
- This device was developed, manufactured and assessed in accordance with the following standards:
  - JNIOOSH-TR-46-1:2015 "Equipment – General requirements"
  - JNIOOSH-TR-46-6:2015 "Equipment protection by intrinsic safety "i" "

**Temperature tables**

Sensor	Temperature class	Process temperature T <sub>p</sub>	Ambient temperature T <sub>a</sub>
CYPO2E	T6	Memocheck CYPO2E is not suitable for use directly in the process	-15 °C ≤ T <sub>a</sub> ≤ +70 °C

**Connection****Ex specification**

- The Memocheck sensor simulators, type series CYP02E, are approved according to the JPN type-examination certificate CML 19JPN2485X 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 <sub>1</sub>	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 <sub>o</sub>	Maximum 180 mW

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