

Safety Instructions

Memosens CAS41E

NI Class I Div 2 Groups A, B, C, D

Safety instructions for electrical apparatus in explosion-hazardous areas



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Associated documentation This document is an integral part of the Memosens CAS41E Operating instructions BA02619C.

Supplementary documentation



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

Certificates

The certificates and declarations of conformity are available in the Downloads area of the Endress+Hauser website:

www.endress.com/download

CSA C/US certificate, certificate number: CSA20CA80021490X

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.

Ex-approval

CSA Ex

NI Class I Div 2 Groups A, B, C, D

The applicable standards can be found on the certificate.

Notified body

CSA Group

Safety instructions

The Memosens Sensor CAS41E is an non-incendive sensor and suitable for use in hazardous areas.

- Pay attention to the control drawing below and the specified application conditions in the Operating Instructions and follow the instructions.
- The final installation shall assure that the metallic sensor body is bonded to ground, as necessary.
- The procedures for electrical connection described in the Operating Instructions must be followed.
- Install the device according to the National Electrical Code (NFPA70) or the Canadian Electrical Code, Part 1 (C22.1), where applicable.
- Use only as specified in the related manual. Improper use may impair protection.
- It is the responsibility of the system assembler to ensure the safety of any system that incorporates this equipment.
- The non-metallic parts of the sensor housing shall be protected from direct impact during installation and normal operation, thereby minimizing the risk of mechanical damage.

Type code

Memosens	xAS41E-aabbccddeeffggg+h	
	x	O, C or OC (not ex-relevant)
	aa	Approval (not ex-relevant)
	bb	
		Material shaft; seals
		11 = 316L/ 1.4404; EPDM
	cc	Process connection (not ex-relevant)

Memosens	xAS41E-aabbccddeeffggg+h	
	dd	ISE-slot 1 (not ex-relevant)
	ee	ISE-slot 2 (not ex-relevant)
	ff	ISE-slot Compensation (not ex-relevant)

Temperature table

Sensor	Process temperature T_p	Ambient temperature T_a
CAS41E	$+2\text{ }^{\circ}\text{C} \leq T_p \leq +40\text{ }^{\circ}\text{C}$	$-20\text{ }^{\circ}\text{C} \leq T_a \leq +55\text{ }^{\circ}\text{C}$

Connection

Installation of fixed cable sensors shall be as per document BA00460CEN.
The digital sensors with Memosens cable shall be connected to the CM44x(R).

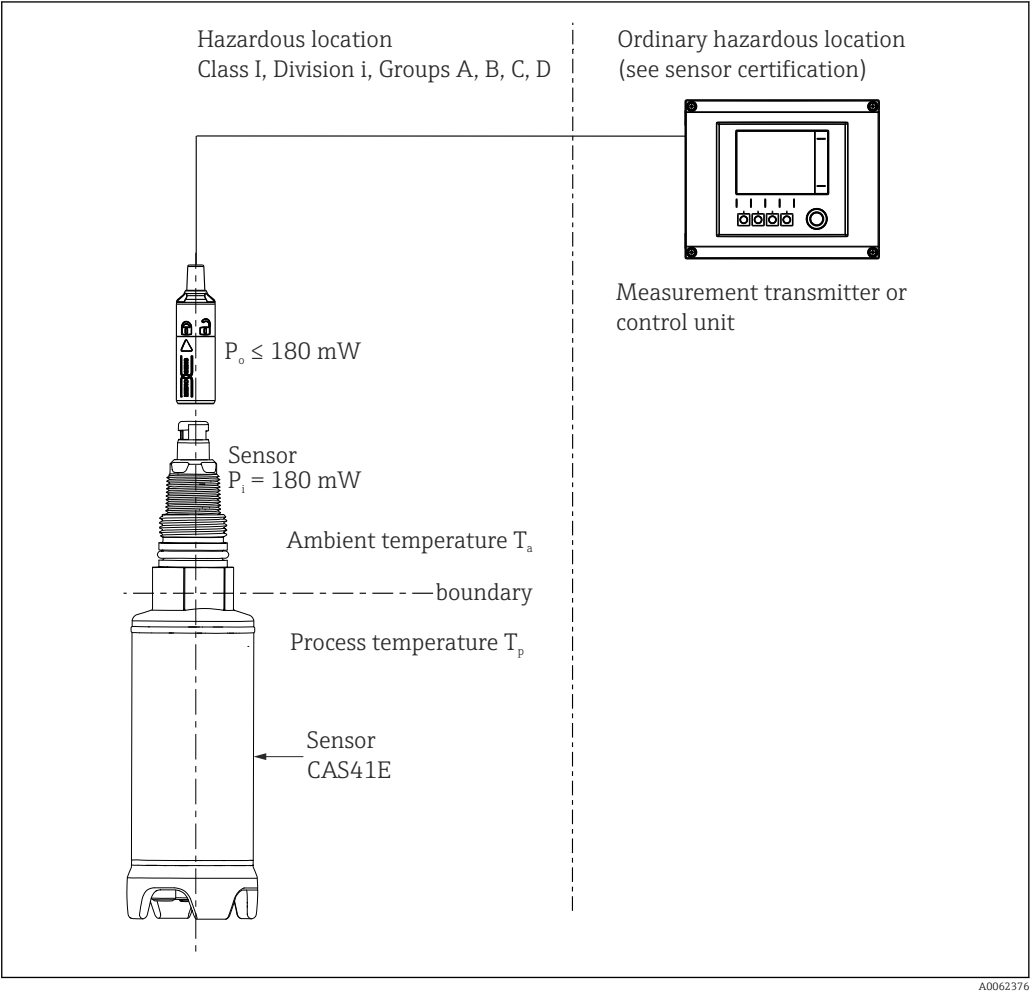
⚠ WARNING

Explosion Hazard

Substitution of components may impair suitability for use in class 1 Division 2.

- ▶ Do not disconnect while the circuit is live or unless the area is free of ignitable concentrations.
- ▶ Do not service electrical connections unless power has been disconnected or the area is known to be free of ignitable concentrations of flammable gases or vapors.

The maximum input power (P_i) shall not exceed 180 mW.



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