Safety Instructions Liquiline M CM42

Two-wire transmitter for hazardous areas

JPN Ex ib [ia Ga] IIC T6 Gb





XA03099C Liquiline M CM42

Liquiline M CM42

Two-wire transmitter for hazardous areas

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Associated documentation

This document is an integral part of Operating Instructions BA00381C and BA00382C.

Supplementary documentation



Competence Brochure CP00021Z

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

Identification

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

- Manufacturer identification
- 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

Туре	Version									
CM42 -	*	U	*	*	*	*	**	*	*	*
	No Ex relevance	JPN Ex ib [ia Ga] IIC T6 Gb	No Ex relevance							

Certificates and approvals

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. Certificate no. DEK19.0022X

Certification Body

DEKRA Certification B.V.

Safety instructions

The transmitter meets the fundamental requirements of the applicable standards and is suitable for use in hazardous areas.

- The transmitter is an intrinsically safe electrical apparatus for use in Zone 1 with Gb instrument protection rating.
- You may only connect suitable sensors and must use them as designated according to the Operating Instructions.
- Suitable sensors, which may be arranged in Zone 0, can be connected to the sensor circuits.
 Suitable sensors bear a red ring.
- $\ \ \, \blacksquare$ The transmitter may only be connected to suitable transmitter power supply units.
- Pay attention to the information in the Operating Instructions regarding the characteristic values
 of the input and output circuits.
- Devices with a stainless steel housing must be connected to the local potential equalization system
 of the place of installation.
- Only genuine spare parts may be used for maintenance or repair measures on the device. These
 measures may only be performed by service staff or properly trained and authorized technical
 staff.
- Installation, electrical connection, commissioning, inspection, maintenance and repair may only be performed by qualified specialists trained to work on explosion protected devices in accordance with the applicable standards, e.g. EN 60079-14, -17, -19. Comply with the instructions in the Operating Instructions.
- To avoid electrostatic charge, the device is fitted with a warning label bearing the following information: "Protect against electrostatic charge. Clean the device with a damp cloth only."

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Temperature tables

	Temperature class T6		
Ambient temperature T _a	$-20 ^{\circ}\text{C} \le T_a \le 50 ^{\circ}\text{C}$		

If the specified process temperatures are complied with, temperatures that are not permitted for the respective temperature class will not occur on the equipment.

Connection data

Ex-specification, current output

Intrinsically safe power supply and signal circuits, passive				
Max. input voltage U _i 30 V				
Max. input current I _i	100 mA			
Max. input power P _i	800 mW			
Max. internal inductance L_i	29 μH (output 1) 24 μH (output 2)			
Max. internal capacitance C _i	1.2 nF (output 1) 0.2 nF (output 2)			

Connecting Memosens sensors

Intrinsically safe sensor circuit with type of protection: Ex ia IIC				
Max. output voltage U_o 5.04 V				
Max. output current I _o	80 mA			
Max. output power P _o	112 mW			

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