

Safety Instructions

Liquiline M CM42

Two-wire transmitter for hazardous areas

KOR Ex ib [ia Ga] IIC T6/T4 Gb



Liquiline M CM42

Two-wire transmitter for hazardous areas

Table of contents

Associated documentation 3

Supplementary documentation 3

Identification 3

Safety instructions 3

Temperature tables 4

Connection data 4

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

Type	Version										
CM42 -	*	M	*	*	*	*	**	*	*	*	
	No Ex relevance	KOR Ex ib [ia Ga] IIC T6/T4 Gb	No Ex relevance								

Certificates and approvals

The product meets the requirements of the Korean Occupational Health and Safety Act.
Certificate no. KTL 14-KB4BO-0305X

Certification Body

KTL Korea Testing Laboratory

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.
- 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."

Temperature tables

	Temperature class	
	T4	T6
Ambient temperature T_a	-20 to +55 °C	-20 to +50 °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 μ H (output 1) 24 μ H (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:	
Max. output voltage U_o	5.04 V
Max. output current I_o	80 mA
Max. output power P_o	112 mW

