

CERTIFICATE

This certifies, that the company

Gefran S.p.A.

Via Sebina, 74

25050 Provaglio d'Iseo (BS)

Italy

Is authorized to provide the product mentioned below

Description of product: **Pressure transmitter series KMC**

In accordance with:

EN IEC 62061:2021

IEC 61508:2010 Parts 1, 2, 3, 4, 5, 6, 7

IEC 61511-1:2016 + A1:2017, IEC 61511-2/3:2016 (as far as applicable)

EN ISO 13849-1:2023

EN ISO 13849-2:2012



Registration No 24 25812 01
Test Report No PS-25812-24-M
File reference 25812-01

Validity
from 2024-10-04
until 2027-10-03

TÜV Nord Italia S.r.l (TÜV NORD Group)
Via Turati, 70 – 20023 Cerro Maggiore (MI) – Italy

www.tuev-nord.it

Cerro Maggiore, 2024-10-04
prodotto@tuev-nord.it

Safety functions	1. Measurement and transduction of the read pressure value, with generation of a signal in CANopen Safety, within the stated measurement uncertainty, for comparison with a fixed safety threshold – high threshold (comparison performed by downstream external system/controller)
Mode of operation	High Demand Mode

Parameter	Results	
	Value	Measuring Unit
Architecture	1oo1(D)	--
HFT	0	--
Category	2	--
β ; β_D factors	0,05, 0,02	--
λ_{DD}	6,55E-07	1/h
λ_{DU}	5,18E-08	1/h
DC_{avg}	92,67	%
SFF	95,23	%
$MTTF_D$	161,52	years
PFH	5,18E-08	1/h
Systematic Capability	2	--
SIL	2	--
PL	d	--

The product can be declared as compliant to:	EN IEC 62061, IEC/EN 61508: SIL 2 EN ISO 13849-1, EN ISO 13849-2: PL d
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Remarks:	<ul style="list-style-type: none"> • These results must be considered in combination with SIL/PL and λ_D values of other devices of a safety-related system in order to determine suitability for a specific SIL/PL • The results are "worst case" results, considering all the mechanical versions • The random failure rates include the estimated failure rate of the protocol
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