

C E R T I F I C A T E

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 KM**

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 13849-1:2015
EN ISO 13849-2:2012

Registration No 23 23460 01
Test Report No PS-23460-23-M
File reference 23460-01



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



www.tuev-nord.it

Validity
from 2023-08-07
until 2026-08-07

Cerro Maggiore, 2023-08-07
prodotto@tuev-nord.it

Please also pay attention to the information stated overleaf

TNI-QF(IND-SIL-01)-14-Rev00_01_03_2020-Certificate_Type A

ANNEX

Annex 1, Page 2 of 2

To Certificate-Nr. 23 23460 01

Safety functions	1. Correct reading and transduction of pressure to individuate overpressure. Reading and transduction is considered correct when it is within the declared uncertainty
Mode of operation	High Demand Mode

		Results	
Parameter		Value	Measuring Unit
Architecture		1001	--
HFT		0	--
Category		2	--
β ; β_D factors		0,02	--
λ_{DD}			
Current output		4,94E-07	1/h
Voltage output		4,67E-07	1/h
Ratio-metric voltage output		4,67E-07	1/h
λ_{DU}			
Current output		3,86E-08	1/h
Voltage output		3,79E-08	1/h
Ratio-metric voltage output		3,79E-08	1/h
DC _{avg}			
Current output		92,76%	%
Voltage output		92,50%	%
Ratio-metric voltage output		92,50%	%
SFF			
Current output		95,01%	%
Voltage output		94,93%	%
Ratio-metric voltage output		94,93%	%
MTTF _D			
Current output		214,29	years
Voltage output		225,92	years
Ratio-metric voltage output		225,92	years
PFH			
Current output		3,86E-08	1/h
Voltage output		3,79E-08	1/h
Ratio-metric voltage output		3,79E-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
--	---

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
-----------------	--