Mettler-Toledo GmbH

Process Analytics

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SIL Declaration of Conformity Functional safety according to

IEC 61508 and 61511

Mettler-Toledo GmbH, Process Analytics

Ve	Im Hackacker 15 8902 Urdorf Switzerland Schweiz
	declare under our sole responsibility that the product
Description	GPro 500 Gas Analyzers Series
	GPRO500*********** / A

We as manufacturer declare that the above gas analyzer series GPro500 are suitable for use in safety instrumented systems according to IEC 61508 and IEC 61511. The primary function of the GPro500 is the measurement of the concentration of the target gas for a safety instrumented function of Safety Integrity Level (SIL) 2. The appropriate safety instructions according to the operating instructions manual GPro500. The software Product revisions will be carried out by the manufacturer in accordance with IEC 61508.

The software version (V7.X) encodes with "X" special modifications for each gas type and mechanical construction which has no influence on the safety function and detection capability. The failure rate calculations were carried out by EXIDA and calculated via an FMEDA according to IEC 61508.

	Failure rates (in FIT)
Fail safe detected (λ _{SD})	0
Fail Safe Undetected (λ _{SU})	0
Fail Dangerous Detected (λ_{DD})	2820
Fail Dangerous Undetected (λ _{DU})	292
Total Failure Rate (safety function)	3112
Safe Failure Function (SFF)	90%
SIL AC	SIL2

Mettler-Toledo GmbH, Process Analytics

Jean-Nicolas Adami SPG Gas Leader

Peter Rowing Head of Quality Management

Place and Date of issue

Smart Key

Urdorf, 19.12.2022

 ${\tt CO_SIL\ Declaration\ of\ Conformity\ GPro\ 500V4_November 2022.doc}$

