Certificate / Certificat
Zertifikat / 合格証

Weidmüller 070902 C007

exida hereby confirms that the:

HART transparent driver
ACT20X-(2)SAI-(2)HAO-S/P
Device version 2

Weidmüller Interface GmbH CO KG
Detmold, Germany

Has been assessed per the relevant requirements of:

IEC 61508 : 2010 Parts 1 - 2

and meets requirements providing a level of integrity to:

Systematic Capability: SC 2 (SIL 2 Capable)

Random Capability: Type A Route 1_H Device

PFD_{AVG} and Architecture Constraints must be verified for each application

Safety related function:
The HART transparent driver isolates 4..20mA process signals and realizes a ground loop elimination.

Application restrictions:
The unit must be properly designed into a Safety Instrumented Function per the requirements in the Safety Manual.

The manufacturer may use the mark:

Revision 3.0 October 16, 2026
Surveillance Audit Due
November 1, 2029

Evaluating Assessor

Certifying Assessor

ANSI National Accreditation Board
ACCREDITED
ISO/IEC 17065
PRODUCT CERTIFICATION BODY

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Systematic Capability: SC 2 (SIL 2 Capable)

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HART transparent driver

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Systematic Capability :

The product has met manufacturer design process requirements of Safety Integrity Level (SIL) 2. These are intended to achieve sufficient integrity against systematic errors of design by the manufacturer.

A Safety Instrumented Function (SIF) designed with these products must not be used at a SIL level higher than the statement without “prior use” justification by end user or diverse technology redundancy in the design.

Random Capability:

The SIL limit imposed by the Architectural Constraints must be met for each subsystem.

Summary for the HART transparent driver ACT20X-(2)SAI-(2)HAO-S/P:

IEC 61508:2010 Failure rates in FIT*

	λ_{Safe}	λ_{DD}	λ_{DU}
Single active input and active output	0	127	48

*FIT= 1 failure / 10^9 hours

SIL Verification:

The Safety Integrity Level (SIL) of an entire Safety Instrumented Function (SIF) must be verified via a calculation of PFD_{AVG} considering redundant architectures, proof test interval, proof test effectiveness, any automatic diagnostics, average repair time and the specific failure rates of all products included in the SIF. Each subsystem must be checked to assure compliance with minimum hardware fault tolerance (HFT) requirements.

The following documents are mandatory parts of this certificate:

Weidmüller 24-02-017-C R001 Assessment Report ACT20X V1R0

Safety manual ACT20X-(2)SAI-(2)HAO V0.2

80 N Main St
Sellersville, PA 18960

T-061, V5R3