Certificate / Certificat
Zertifikat / 合格証

YEC 2109013 C001

exida hereby confirms that the:

ADMAG TI Series Magnetic Flowmeter

Yokogawa Electric Corporation
Musashino-shi, Tokyo, Japan

Has been assessed per the relevant requirements of:

IEC 61508 : 2010 Parts 1-3

and meets requirements providing a level of integrity to:

Systematic Capability: SC 3 (SIL 3 Capable)

Random Capability: Type B Element

SIL 2 @ HFT=0; SIL 3 @ HFT = 1; Route 1_H

PFH/PFD_{avg} and Architecture Constraints must be verified for each application

Safety Function:

The ADMAG TI Series Magnetic Flowmeter will measure Flow within the stated safety accuracy.

Application Restrictions:

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

The manufacturer may use the mark:

Revision 5.3 January 15, 2026
Surveillance Audit Due
January 31, 2027

ANSI National Accreditation Board
ACCREDITED
ISO/IEC 17065
PRODUCT CERTIFICATION BODY
#1004

Masanori Hondo
Evaluating Assessor

Certifying Assessor

Certificate / Certificat / Zertifikat / 合格証

YEC 2109013 C001

Systematic Capability: SC 3 (SIL 3 Capable)

Random Capability: Type B Element

SIL 2 @ HFT=0; SIL 3 @ HFT = 1; Route 1_H

PFH/PFD_{avg} and Architecture Constraints must be verified for each application

ADMAG TI Series Magnetic Flowmeter

Systematic Capability:

The product has met manufacturer design process requirements of Safety Integrity Level (SIL) 3. These are intended to achieve sufficient integrity against systematic errors of design by the manufacturer.

A Safety Instrumented Function (SIF) designed with this product must not be used at a SIL level higher than stated.

Random Capability:

The SIL limit imposed by the Architectural Constraints must be met for each element. This element meets *exida* criteria for Route 2_H.

IEC 61508 Failure Rates in FIT*

Device/Configuration	λ_{SD}	λ_{SU}	λ_{DD}	λ_{DU}	SFF
ADMAG TI Multi(Non-IS) Option	–	88	2,527	194	93.1%
ADMAG TI IS Option	–	91	2,684	203	93.2%

* 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 PFH/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 element must be checked to assure compliance with minimum hardware fault tolerance (HFT) requirements.

The following documents are a mandatory part of certification:

Assessment Report: YEC 21/09-013 R002 V6 R3 (or later)

Safety Manual: IM01E21A21-02EN 7th Edition (or later)

80 N Main St
Sellersville, PA 18960