

420-0004-566		Sht 1 of 2	ISSUE 1
ISSUE	EDO NO	APPD	DATE
1	2-18-114	SGA	2-23-18



The manufacturer
may use the mark:



Revision 1.0 October 26, 2017
Surveillance Audit Due
November 1, 2020



ANSI Accredited Program
ISO/IEC 17065
PRODUCT CERTIFICATION BODY
#1004

Certificate / Certificat Zertifikat / 合格証

AME 1612046 C001

exida hereby confirms that the:

IntelliPoint RF Series Point Level Switch

**Ametek Drexelbrook
Horsham, PA - USA**

Has been assessed per the relevant requirements of:

IEC 61508 : 2010 Parts 1-7

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 2_H

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

Safety Function:

The Intellipoint provides fail-safe reporting via a 4-20ma output value below 6ma or above 17ma when the system detects a fault conditions. If equipped, the output relay will change state to indicate a fault or if power to the device is removed.

Application Restrictions:

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



[Signature]

Evaluating Assessor

[Signature]

Certifying Assessor

IntelliPoint RF Series Point Level Switch

Certificate / Certificat / Zertifikat / 合格証

AME 1612046 C001

Systematic Capability: SC 3 (SIL 3 Capable)

Random Capability: Type B Element

**SIL 2 @ HFT=0; SIL 3 @ HFT = 1; Route 2_H
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must be verified for each application**

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 device meets *exida* criteria for Route 2_H.

IEC 61508 Failure Rates in FIT*

Device	λ_{SD}	λ_{SU}	λ_{DD}	λ_{DU}
Intellipoint (Loop)	0	28	399	103
Intellipoint (Relay)	92	189	226	142

* FIT = 1 failure / 10⁹ 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: AME 16/12-046 R002 V1 R1 (or later)

Safety Manual: SIL Intellipoint Safety Manual -V1 R1 (or later)



80 N Main St
Sellersville, PA 18980

T-002, V5R1