

The manufacturer
may use the mark:



Reports:

HON11/09-030 R002 V1 R1
Assessment Report

HON 06/05-18 R002 V1 R1
FMEDA Report

Validity:

This assessment is valid for
the ST3000 Pressure
Transmitter, Series 100 and
900, SL option, with HART
6.x

This assessment is valid until
October 5, 2014.

Revision 1.0 October 5, 2011



Certificate / Certificat Zertifikat / 合格証

HON 1109030 C001

exida hereby confirms that the:

**ST3000 Pressure Transmitter, Series 100
and 900, SL option, with HART 6.x**

**Honeywell International, Inc.
Fort Washington, PA - USA**

Has been assessed per the relevant requirements of:

IEC 61508 : 2000 Parts 1-7

and meets requirements providing a level of integrity to:

Systematic Integrity: SIL 3 Capable

Random Integrity: Type B Element

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

Safety Function:

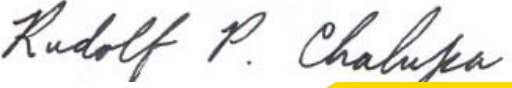
The ST3000 Transmitter will measure Pressure within the stated
safety accuracy.

Application Restrictions:

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




Evaluating Assessor


Certifying Assessor

HON 1109030 C001

Systematic Integrity: SIL 3 Capable

Random Integrity: Type B Element

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

SIL 3 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 without "prior use" justification by end user or diverse technology redundancy in the design.

IEC 61508 Failure Rates in FIT*

Device	λ_{sd}	λ_{su}	λ_{dd}	λ_{du}	SFF
ST3000 pressure transmitter	0	70	427	40	92.5%

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.

* FIT = 1 failure / 10⁹ hours

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Form	Version	Date
C61508	2.7-3	Mar 2011