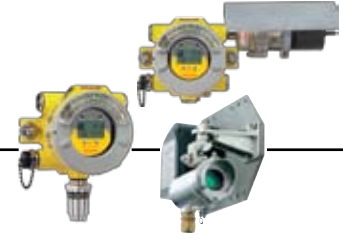


Functional Safety

XNX™ and Safety Integrity Level



Overview

SIL levels, in accordance with IEC 61508, are achieved through a rigorous development process that includes product design testing, failure analysis and documentation of both hardware and software conducted by an independent third party agency. The data below is taken from a report summary of the testing performed on the XNX and the various configurations available with the XNX. For more information please contact Honeywell Analytics.

Honeywell Analytics Products

Components	SIL Level*	SFF**	PFD _{avg} (1 yr)***	PFH (1/h)	Test Reports
XNX Transmitter with Combustible Sensor (IR cartridge)	SIL 2	1001	2.7E-04	6.2E-08	TÜV 968/EZ 319.02/09, TÜV 968/EL 665.01/09
XNX Transmitter with Combustible Sensor (Catalytic Bead)	SIL 2	1001	4.7E-04	1.1E-07	TÜV 968/EZ 319.02/09, TÜV 968/EL 665.01/09
XNX Transmitter with Toxic Sensor	SIL 2	1001	2.3E-04	5.4E-08	TÜV 968/EZ 319.02/09, TÜV 968/EZ 493.00/11
XNX Transmitter with Oxygen Sensor	SIL 2	1001	2.3E-04	5.4E-08	TÜV 968/EZ 319.02/09, TÜV 968/EZ 493.00/11
XNX Infrared Combustible Gas Detector (with Searchpoint Optima Plus)	SIL 2	1001	6.1E-04	1.4E-07	TÜV 968/EZ 319.02/09, exida 03/12-25 R002
XNX Infrared Combustible Gas Detector (with Searchline Excel)	SIL 2	1001	7.7E-04	1.8E-07	TÜV 968/EZ 319.02/09, exida 04/08-13 R001
Standalone XNX Transmitter	SIL 2	1001	1.2E-04	2.8E-08	TÜV 968/EZ 319.02/09
Standalone Searchpoint Optima Plus	SIL 2	1001	4.9E-04	1.1E-07	exida 03/12-25 R002
Standalone Searchline Excel	SIL 2	1001	6.5E-04	1.5E-07	exida Zel 04/08-13 R001

* This rating is highest achievable SIL level the XNX, Optima and Excel gas detection system can achieve as standalone safety devices. In more complex safety system the above values are the safety parameters of XNX, Optima and Excel gas detection system required to determine the acceptance of the complete safety function (ie: all safety parameters, safety architecture, etc.) as required by IEC 61508 and IEC 61511.

** This column refers to the safety architecture and indicates that this system is 1 of 1.

*** Denotes a proof test interval of one year.

Find out more

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