

SIL DECLARATION OF CONFORMITY

Document Number DZ.APC.APR.ALW.EX.SIL.REV1

Manufacturer: **APLISENS S.A.**,
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We hereby declare, accepting full responsibility that:

APC-2000ALW Ex Safety pressure transmitters and APR-2000ALW Ex Safety differential pressure transmitters in all versions meet the requirements of functional safety integrity level SIL2 at the hardware failure tolerance HFT=0, by implementing the 1oo1 architecture with diagnostics in one channel in permanent operation mode in the type B subsystem, in accordance with the standard:

PN-EN 61508-1,2,3:2010, IEC 61508-1,2,3:2010

PN-EN 61511-1:2007, IEC 61511-1:2003

on condition that the provided operation and safety instructions are followed.

The failure rates coefficients and the reliability parameters are presented in the tables below:

Transmitter type:	λ_{total}	λ_{SD}	λ_{SU}	λ_{DD}	λ_{DU}	SFF	DC	MTBF	PFD _G T[Proof] = 1 year
APC-2000ALW Ex Safety	3383 FIT	0 FIT	1553 FIT	1734 FIT	96 FIT	97,16 %	94,75 %	2,956×10 ⁵ h	5,46×10 ⁻⁴
APR-2000ALW Ex Safety	3383 FIT	0 FIT	1553 FIT	1734 FIT	96 FIT	97,16 %	94,74 %	2,956×10 ⁵ h	5,46×10 ⁻⁴

SIL@Route 1 _H	SIL 2
SIL@Route 2 _H	
HFT	0
Type of subsystem	B
Architecture	1oo1 D

In context of the equipment's safety integrity the highest level which may be declared in relation to safety functions is limited by the equipment safety integrity obtained using two routes: Route 1_H and Route 2_H.

The certificate number 741/CW/001 has been issued by UDT-CERT, Urząd Dozoru Technicznego (Office of Technical Inspection), ul. Szczęśliwicka 34, 02-353 Warsaw on: 04.12.2014.

The certificate has been issued based on the test protocol number 741/CW/2014-001 dated 03.12.2014.

Zurawski

Warsaw, 08.12.2014

Adam Żurawski
 President of the Management Board