

## SIL DECLARATION OF CONFORMITY

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

Manufacturer: **APLISENS S.A.**,  
**ul. Morelowa 7, 03-192 Warszawa**

We hereby declare, accepting full responsibility that:

APC-2000ALW Safety pressure transmitters and APR-2000ALW 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:	$\lambda_{total}$	$\lambda_{SD}$	$\lambda_{SU}$	$\lambda_{DD}$	$\lambda_{DU}$	SFF	DC	MTBF	PFD <sub>G</sub> T[Proof] = 1 year
APC-2000ALW Safety	3279 FIT	0 FIT	1487 FIT	1698 FIT	94 FIT	97,14 %	94,76 %	3,050 × 10 <sup>5</sup> h	5,35 × 10 <sup>-4</sup>
APR-2000ALW Safety	3279 FIT	0 FIT	1487 FIT	1698 FIT	94 FIT	97,13 %	94,75 %	3,050 × 10 <sup>5</sup> h	5,35 × 10 <sup>-4</sup>

SIL@Route 1 <sub>H</sub>	SIL 2
SIL@Route 2 <sub>H</sub>	
HFT	
Type of subsystem	
Architecture	

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<sub>H</sub> and Route 2<sub>H</sub>.

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