



# Certificate of Compliance

**Certificate:** 2534055

**Master Contract:** 256053

**Project:** 2657476

**Date Issued:** October 18, 2013

**Issued to:** POSITEK Ltd.

Unit L6 The Link, Andoversford  
Cheltenham, GL54 4LB  
United Kingdom  
Attention: Roger Swadling

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



**Issued by:** Ian Henderson

## **PRODUCTS**

- CLASS 2258 83** - PROCESS CONTROL EQUIPMENT-Intrinsically Safe and Non-Incendive - Systems-For Hazardous Locations-Certified to U.S. Standards
- CLASS 2258 03** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non - Incendive Systems - For Hazardous Locations

**Canada:**[Ex ia IIC]

**USA:** [AEx ia IIC]

**USA:** [AEx iaD IIIC]



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G005 3-Port Galvanic Isolation Amplifier rated 30 Vdc max, 200mA max. Ambient temperature -20°C to +60°C. Provides Intrinsically Safe outputs with the following entity parameters:

Uo =	10.66 V			
Io =	50.5 mA			
Po =	121 mW			
Group	IIC	IIB	IIA	
Co =	2.23	15.6	69.0	μF
Lo =	14	53	112	mH
OR				
L / R ratio	295	1178	2357	μH / Ω
Ci =	0 μF			
Li =	0 mH			

The G005 3-Port Galvanic Isolation Amplifier shall be connected according to the installation drawing nos. G005-19; in ordinary location and represents the associated apparatus that provides intrinsically safe circuits Ambient Temperature Range: -20°C=<Ta=<+60°C.

The final installation of the system shall meet all applicable codes and it shall be subjected to acceptance of local authority having jurisdiction.

**APPLICABLE REQUIREMENTS**

CSA C22.2 No. 0-10	General Requirements - Canadian Electrical Code, Part II
CAN/CSA C22.2 No. 142-M1987	Process Control Equipment
UL 508	Industrial Control Equipment
CAN/CSA-C22.2 No. 60079-0:11	Explosive atmospheres — Part 0: Equipment — General requirements
CAN/CSA-C22.2 No. 60079-11:11	Explosive atmospheres — Part 11: Equipment protection by intrinsic safety “i”
ANSI/UL 60079-0:09 (5th Ed.)	Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements
ANSI/UL 60079-11:09 (5th Ed.)	Electrical apparatus for Explosive Gas Atmospheres - Part 11: Intrinsic Safety “i”
ANSI/ISA-61241-0 (12.10.02)-2006	Electrical Apparatus for Use in Zone 20, Zone 21 and Zone 22 Hazardous (Classified) Locations – General Requirements
ANSI/ISA-61241-1 (12.10.03)-2006 (R2011)	Electrical apparatus for Explosive Gas Atmospheres - Part 11: Intrinsic Safety “i”
ANSI/ISA-61241-11 (12.10.04)-2006 (R2011)	Electrical Apparatus for Use in Zone 20, Zone 21 and Zone 22 Hazardous (Classified) Locations – Protection by Intrinsic Safety “iD”