



1. **TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

3. **Type Examination Certificate Number:** ITS15ATEX48263X

4. **Equipment or Protective System:** Titan NextGen DAQ

5. **Manufacturer:** Applied Automation and Controls Inc

6. **Address:** 10700 Corporate Drive, Suite 108, Stafford, TX, 77477 U.S.A.

7. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8. Intertek Testing and Certification Limited certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive 94/9/EC of 23 March 1994

The examination and test results are recorded in confidential Intertek Report 102080041DAL-001, Dated 29 July 2015.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0:2012+A11:2013; EN 60079-15:2010 except in respect of those requirements referred to at item 16 of the Schedule.

10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11. This Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12. The marking of the equipment or protective system shall include the following:-

 II 3 G Ex nA IIC T5 Gc IP 54

$-20^{\circ}\text{C} \leq T_a \leq 60^{\circ}\text{C}$



Michael Spector
Certification Officer
7 Aug 2015

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13. **Description of Equipment or Protective System**

The Titan NextGen DAQ is data acquisition and control system. The unit powers the sensors, displays their data, runs calculations, and records job information. In addition, the sensor data can be transmitted to a PC in real-time or after the completion of the job. Enclosure is provided with piezoelectric keypad with no electrical make or break connection. Titan NextGen DAQ contains terminal blocks fuse, connectors, Ethernet port for Ethernet cable, Mechanically secured Coin cell; non-arcing solid state relay in it. USB port inside is not for use in hazardous area. LCD used has no internal arcing or sparking parts.

The equipment is rated for 10-28VDC; 175mA.

14. **Report Number**

Intertek Report Ref: 102080041DAL-001, Dated 29 July 2015.

15. **Conditions of Certification**

(a). Special Conditions for safe use

1. The equipment enclosure provides IP54 protection for the electronics inside. Steps must be taken by the installer to control condensation and humidity inside the equipment to ensure that a Pollution Degree 2 environment as defined in EN 60664-1 is maintained inside the enclosure of the equipment.
2. For fixed installation only. WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS
3. End user has responsibility to use ATEX certified cable glands providing minimum IP 54 protection

(b). Conditions of Manufacture

- A routine dielectric strength test shall be carried out. Test vtg: 500 Vrms (+5% tolerance) or 700VDC (140% of 500Vrms) for 60 or 65 seconds; alternatively 600Vrms for minimum of 100 ms.

Test points: Input connection to Grounding Terminal

16. **Essential Health and Safety Requirements (EHSR's)**

The relevant EHSR's have been identified and assessed in Intertek Report 102080041DAL-001, Dated 29 July 2015



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SCHEDULE

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17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
NextGenDAQ, Titan Certification Drawing (Total Sheets=6)	00-92412	F	7/7/2015

Schedule drawing contains total 6 sheets that details enclosure general arrangement drawing; including ATEX label and warning copies.

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

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