

# 1 EC-TYPE EXAMINATION CERTIFICATE



- 2 Equipment or Protective systems intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC
- 3 EC-Type Examination Certificate No: FM10ATEX0022X
- 4 Equipment or protective system: N2900 Float and Tape Transmitter (FTT)  
(Type Reference and Name) N8200 Current Output Level Transmitter (COT)
- 5 Name of Applicant: Varec, Inc.
- 6 Address of Applicant: 5834 Peachtree Corners East; Suite A  
Norcross, GA 30092  
USA
- 7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to
- 8 FM Approvals Ltd, notified body number 1725 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive
- The examination and test results are recorded in confidential report number:  
3038297EC dated 6<sup>th</sup> December, 2010
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:  
EN60079-0:2006, EN60079-1:2007, EN60529:1991 + A1:2000
- 10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- 11 This EC-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:



II 2 G Ex d IIB T5 Gb Ta = -20°C to +85°C IP66

Digitally signed by Andrew Was  
DN: cn=Andrew Was, o=FM Approvals, ou=Certification Manager, email=andrew.was@fmapprovals.com, c=GB  
Date: 2011.01.24 18:46:18 Z

**Andrew Was**  
Certification Manager, FM Approvals Ltd.

Issue date: 24<sup>th</sup> January, 2011

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

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F ATEX 020 (Jun/10)

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# SCHEDULE



to EC-Type Examination Certificate No. FM10ATEX0022X

## 13 Description of Equipment or Protective System:

**Model N2900 FTT** – The Model N2900 FTT is a precision digital instrument designed to mount directly to most mechanical float and tape tank gauges and transmit level to an inventory management system. The Model N2900 FTT contains two discrete inputs for connection to ancillary devices, when the AC power option is installed two additional discrete inputs are available. When the AC power option is installed in the device, four contact outputs which are software driven normally opened or closed outputs are provided. The Model N2900 FTT shares the same 380 cast aluminum alloy enclosure with the Model N8200 COT.

**Model N8200 COT** – The Model N8200 COT is an electromechanical device that is mechanically coupled to a liquid level indicating gauge head. The drive shaft of the device is coupled to a worm gear that drives the shaft of a potentiometer. Rotation causes current flow in the instrument output loop. The current loop variations are carried through a conductor pair to a central receiver or indicator to provide the signal to remotely display the level of the liquid in a tank. The Model N8200 COT shares the same 380 cast aluminum alloy enclosure with the Model N2900 FTT. Additional information can be found in the Installation and Operations Manual listed with documentation.

**Power Requirements** - The Model N8200 COT and Model N2900 FTT require an electrical input of 15-48 Vdc or 120 Vac/ 220 to 240 Vac at 50/60 Hz. Additional information can be found in the Installation and Operations Manuals listed with documentation.

### ***N2900Babcde. Float and Tape Transmitter.***

- a = Power Input: 0 or 1.
- b = Communications: M4, 48 or LJ
- c = Inputs/Outputs: 0, 1 or 2
- d = Limit Switches: 1, 2, 3, 4 or 5.
- e = Approval Certification: AT or IC

### ***N8200abcde. Current Output Level Transmitter.***

- a = Input power type 0, 1 or 2
- b = Level Range: 1 to 8
- c = Approval Certification: 2 or 3
- d = General Options 0 to 3
- e = Junction Box 0, 1

## 14 Special Conditions for Safe Use:

- 1 *Consult the manufacturer if dimensional information on the flameproof joints is necessary.*

## 15 Essential Health and Safety Requirements:

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

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# **SCHEDULE**



to EC-Type Examination Certificate No FM10ATEX0022X

**16 Test and Assessment Procedure and Conditions:**

This EC-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Ltd's ATEX Certification Scheme.

**17 Approved Drawings**

Details of the approved drawings and documents are identified in the confidential report identified in item 8.

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Supplement 1 to  
EC-Type Examination Certificate No. FM10ATEX0022X  
in accordance with Clause 6 of Annex III to Directive 94/9/EC.



- 4 Equipment or protective system:  
(Type Reference and Name) N2900 Float and Tape Transmitter (FTT)  
N8200 Current Output Level Transmitter (COT)
- 5 Name of Applicant: Varec Inc
- 6 Address of Applicant: 5843 Peachtree Corners East; Suite A  
Norcross, GA 30092  
USA

The examination and test results are recorded in confidential report number  
3038297rev110201 dated 29<sup>th</sup> March 2011

Description of the supplements and modifications:

13 Description of Equipment or Protective System:

Corrected type error in model code structure.

**N2900abcde. Float and Tape Transmitter.**

- a = Power Input: 0 or 1.
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**N8200abcde. Current Output Level Transmitter.**

- a = Input power type 0, 1 or 2
- b = Level Range: 1 to 8
- c = Approval Certification: 2 or 3
- d = General Options 0 to 5.
- e = Junction Box 0, 1.

14 Special Conditions of Use:

1. Consult the manufacturer if dimensional information on the flameproof joints is necessary

A handwritten signature of Andrew Was in black ink.

Digitally signed by Andrew Was  
DN: cn=Andrew Was, o=FM Approvals,  
ou=Certification Manager,  
email=andrew.was@fmapprovals.com,  
c=GB  
Date: 2011.05.26 11:17:59 -0100

**Andrew Was**  
Certification Manager FM Approvals Ltd.

Issue date: 26<sup>th</sup> May 2011

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