

Certificate of Compliance

Certificate: 1519878 (LR 053988)

Master Contract: 224001

Project: 1717460

Date Issued: October 7, 2005

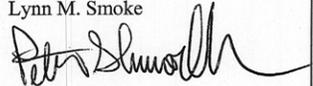
Issued to: Varec, Inc.
5834 Peachtree Corners East
Norcross, GA 30092
USA

Attention: Mr. Steven Jackson

The products listed below are eligible to bear the CSA Mark shown



Issued by: Lynn M. Smoke



Authorized by: Peter Schimmoeller
Manager Certification Services

PRODUCTS

2258-02 - PROCESS CONTROL EQUIPMENT – For Hazardous Locations

Ex nA IIC: Class I, Zone 2:

Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III; Type 4X:

- 7500 Series Radar Tank Gauge, Model N7530-UbccdCfg (Horn Antenna), N7531-UbccccCfg (Rod Antenna), N7532-UbccccCfg (Planar Antenna) and N7533-UbccccCfg (Parabolic Antenna), rated 4-20mA, 30V. Suitable for Div. 2/Zone 2 with Temperature Codes and Maximum Ambient Temperatures per Control Drawings No 960397-7045.

Note: Antennas have a Type 6P rating.

Ex nC IIC: Class I, Zone 2:

Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III; Type 4X:

- 7200 Series Radar Tank Gauge, (Intrinsically Safe) Model N7230-Ubddddefgh (Horn Antenna, 5.8-6.3GHz), N7231-Ubcccdefgh (Rod Antenna), N7232-Ubcccdefg (Planar Antenna), N7233-Ubcccdefg (Parabolic Antenna), N7240-Ubcdeefghi (Horn Antenna, >20GHz), N7244-Ubddddefgh (compact antenna with high chemical resistance) and N7245-Ubcccdefg (compact antenna, highly resistant and easy to clean), rated 4-20mA, 30V. Temperature Codes and Maximum

Certificate: 1519878 (LR 053988)

Project: 1717460

Master Contract: 224001

Ambient Temperatures per Control Drawing Nos. 960417-2065 (F12/IS-HART), 960417-2066 (F12/FISCO-PA/FF), 960417-2069 (F23/IS-HART), 960417-2070 (F23/IS-FISCO - PA/FF), 960417-2071 (F23/IS-ENTITY - PA/FF), 960417-2072 (T12-OVP / IS-HART), 960417-2073 (T12-OVP - FISCO - PA/FF), 960417-2074 (T12-OVP - ENTITY - PA/FF) and 960417-2087 (F12/IS-ENTITY-PA/FF).

- 7200 Series Radar Tank Gauge, (Explosion-proof) Model N7230-Vbcccdefgh (Horn Antenna, 5.8-6.3GHz), N7231-Vbcccdefgh (Rod Antenna), N7232-Vbcccdefg (Planar Antenna), N7233-Vbcccdefg (Parabolic Antenna), N7240-Vbcdeefghi (Horn Antenna, >20GHz), N7244-Vbcccdefgh (compact antenna with high chemical resistance) and N7245-Vbcccdefg (compact antenna, highly resistant and easy to clean), rated 4-20mA, 30V. Temperature Codes and Maximum Ambient Temperatures per Control Drawing No. 960417-2067B.

SPECIAL CONDITIONS FOR SAFE USE (X)

1. The units must be installed in accordance with the applicable referenced Control Drawings.
2. Some of the sensors are made of plastic and as such, present a possible electrostatic hazard. They are intended for use in zone 0, 1, 2 hazardous locations, gases vapours or mists. If sensors are to be cleaned, a damp cloth should be used. The applicable equipment bears a metallic warning label which is fixed with a key ring with the following wording:

“AVOID ELECTROSTATIC CHARGING OF THE ANTENNA”.

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

Ex d [ia] IIC: Class I, Zone 1/0:

Class I, Division 1, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III; Type 4X:

- 7200 Series Radar Tank Gauge, (Explosion-proof) Model N7230-Vbcccdefgh (Horn Antenna, 5.8-6.3GHz), N7231-Vbcccdefgh (Rod Antenna), N7232-Vbcccdefg (Planar Antenna), N7233-Vbcccdefg (Parabolic Antenna), N7240-Vbcdeefghi (Horn Antenna, >20GHz), N7244-Vbcccdefgh (compact antenna with high chemical resistance) and N7245-Vbcccdefg (compact antenna, highly resistant and easy to clean), rated 4-20mA, 30V. Explosion-Proof with Intrinsically Safe electronics and antenna. Temperature Codes and Maximum Ambient Temperatures per Control Drawing No. 960417-2067. Factory Sealed.

SPECIAL CONDITIONS FOR SAFE USE (X)

1. The units must be installed in accordance with the applicable referenced Control Drawings.
2. Some of the sensors are made of plastic and as such, present a possible electrostatic hazard. They are intended for use in zone 0, 1, 2 hazardous locations, gases vapours or mists. If sensors are to be cleaned,

Certificate: 1519878 (LR 053988)

Project: 1717460

Master Contract: 224001

a damp cloth should be used. The applicable equipment bears a metallic warning label which is fixed with a key ring with the following wording:

“AVOID ELECTROSTATIC CHARGING OF THE ANTENNA”.

Ex nC IIC: Class I, Zone 2;

Class I, Division 2, Group A, B, C and D; Type 4X Enclosure:

- N4400 Display, rated 5.6V, 1mA. Non-Incendive per Control Drawing No. 960411-7006. Temperature Code T5. Maximum Ambient Temperature 75°C.

2258-04 - PROCESS CONTROL EQUIPMENT – Intrinsically Safe Entity – For Hazardous Locations

Ex ia IIC: Class I, Zone 0:

Class I, Groups A, B, C and D; Class II, Groups E, F and G; Class III, Type 4X:

- 7500 Series Radar Tank Gauge, Model N7530-UbcccCfG (Horn Antenna), N7531-UbcccCfG (Rod Antenna), N7532-UbcccCfG (Planar Antenna), and N7533-UbcccCfG (Parabolic Antenna), rated 4-20mA, 30V. Intrinsically Safe with Temperature Codes and Maximum Ambient Temperatures with Entity Parameters per Control Drawing No. 960397-7045.

Note: Antennas have a Type 6P rating.

Ex ia IIC: Class I, Zone 0:

Class I, Division 1, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III; Type 4X:

- - 7200 Series Radar Tank Gauge, (Intrinsically Safe) Model N7230-Ubcdddefgh (Horn Antenna, 5.8-6.3GHz), N7231-Ubcdddefgh (Rod Antenna), N7232-Ubcdddefg (Planar Antenna), N7233-Ubcdddefg (Parabolic Antenna), N7240-Ubcdeefghi (Horn Antenna, >20GHz), N7244-Ubcdddefgh (compact antenna with high chemical resistance) and N7245-Ubcdddefg (compact antenna, highly resistant and easy to clean), rated 4-20mA, 30V. Intrinsically Safe with Temperature Codes and Maximum Ambient Temperatures with Entity Parameters per Control Drawing Nos. 960417-2065 (F12/IS-HART), 960417-2066 (F12/FISCO-PA/FF), 960417-2069 (F23/IS-HART), 960417-2070 (F23/IS- FISCO – PA/FF), 960417-2071 (F23/IS- ENTITY – PA/FF), 960417-2072 (T12-OVP / IS-HART), 960417-2073B (T12-OVP - FISCO – PA/FF), 960417-2074 (T12-OVP - ENTITY – PA/FF) and 960417-2087 (F12/IS- ENTITY-PA/FF).

Note: All 7200 Series Radar Tank Gauge N72xx-U.... with Profibus PA or Foundation Fieldbus (model code for “Output and Operation” = C,D or E,F) can be installed according to the FISCO Model (per Control Drawing 960417-2066, 960417-2070 or 960417-2073) or Entity Concept (per Control Drawing 960417-2071, 960417-2074 or 960417-2087).

SPECIAL CONDITIONS FOR SAFE USE (X)

1. The units must be installed in accordance with the applicable referenced Control Drawings.

Certificate: 1519878 (LR 053988)

Project: 1717460

Master Contract: 224001

2. Some of the sensors are made of plastic and as such, present a possible electrostatic hazard. They are intended for use in zone 0, 1, 2 hazardous locations, gases vapours or mists. If sensors are to be cleaned, a damp cloth should be used. The applicable equipment bears a metallic warning label which is fixed with a key ring with the following wording:

“AVOID ELECTROSTATIC CHARGING OF THE ANTENNA”.

Class I, Zone 0, Group IIC:

Class I, Groups A, B, C and D; Class II, Groups E, F and G; Class III; Type 4X:

- 4590 Series Tank Side Monitor, Model N-4590, rated 12-55V dc, 12W max., 52-250V ac, 50/60Hz, 12VA; explosion-proof for Class I, Div. 1, Groups A, B, C, D, Class II, Div. 1, Groups E, F, G, Class III; Class I, Zone 1, Group IIC (Seals Not Required) or suitable for use in Class I, Div. 2, Groups A, B, C, D; Class I, Zone 2, Group IIC (temp. code T3C). Provides intrinsically safe circuits with entity parameters per connection drawing 960522-7050 and 960522-7051; maximum ambient 70C.

Ex ia IIC: Class I, Zone 0;

Class I, Division 1, Group A, B, C and D; Type 4X Enclosure:

- N4400 Display, rated 5.6V, 1mA. Intrinsically Safe with entity parameters per Control Drawing No. 960411-7006. Temperature Code T5. Maximum Ambient Temperature 75°C.

CLASS 2252 01 - PROCESS CONTROL EQUIPMENT

Type 4X Enclosure:

- 7200 Series Radar Tank Gauge, Model N7230-Nbcdddefgh (Horn Antenna, 5.8-6.3GHz), N7231-Nbcccddefgh (Rod Antenna), N7232-Nbcccddefg (Planar Antenna), N7233-Nbcccddefg (Parabolic Antenna), N7240-Nbcdeefghi (Horn Antenna, >20GHz), N7244-Nbcdddefgh (compact antenna with high chemical resistance) and N7245-Nbcccddefg (compact antenna, highly resistant and easy to clean), rated 4-20mA, 36V.

APPLICABLE REQUIREMENTS

CSA Std C22.2 No.	25-1966	- Enclosures for Use in Class II Groups E, F, and G Hazardous Locations
CSA Std C22.2 No.	30-M1986	- Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CAN/CSA C22.2 No.	94-M91	- Special Purpose Enclosures
CSA Std C22.2 No.	142-M1987	- Process Control Equipment
CAN/CSA C22.2 No.	157-92	- Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
CSA Std C22.2 No.	213-M1987	- Non-incendive Electric Equipment for Use in Class I, Division 2 Hazardous Locations
CAN/CSA-E79-0-95		- Electrical Apparatus for Explosive Gas Atmospheres—Part 0: General Requirements
CAN/CSA-E79-11-95		- Electrical Apparatus for Explosive Gas Atmospheres—Part 11: Intrinsic Safety “i”
CAN/CSA-E79-15-95		- Electrical Apparatus for Explosive Gas Atmospheres—Part 15: Electrical Apparatus - with Type of Protection “n”



Certificate: 1519878 (LR 053988)

Project: 1717460

Master Contract: 224001

- CAN/CSA-E60079-0:02 - Electrical Apparatus for Explosive Gas Atmospheres--Part 0: General Requirements
- CAN/CSA-E60079-1:02 - Electrical Apparatus for Explosive Gas Atmospheres--Part 1: Construction and Verification Test of Flameproof Enclosures of Electrical Apparatus
- CAN/CSA-E60079-11:02 - Electrical Apparatus for Explosive Gas Atmospheres--Part 11: Intrinsic Safety "i"
- CAN/CSA-E60079-15:02 - Electrical Apparatus for Explosive Gas Atmospheres--Part 15: Electrical Apparatus with Type of Protection "n"

Supplement to Certificate of Compliance

Certificate: 1519878 (LR 053988)

Master Contract: 224001

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
1717460	2005-10-07	Submittal of Drawing changes to the already Certified N4590.
1533095	2004-03-26	Model comparison for Endress + Hauser GmbH + Co. KG. Report Nos. 151079-1399801.
1533094	2004-03-26	Model comparison for Endress + Hauser GmbH + Co. KG. Report Nos. 151079-1039154.
1519878	2004-01-29	Original Certification. Model comparison for Endress + Hauser GmbH + Co. KG. Report Nos. 151079-1141880 and 151079-1308795.

Endress + Hauser GmbH + Co. KG	Varec, Inc.
Project 1519878	
FMR530	N7530
FMR531	N7531
FMR532	N7532
FMR533	N7533
NRF590	N4590
Project 1533094	
FMR230	N7230
FMR231	N7231
FMR232	N7232
FMR233	N7233
FMR240	N7240
FMR244	N7244
FMR245	N7245
Project 1533095	
FHX40	N4400
Project 1717460 (Drawing update for)	
FMR53x	N753x
NRF590	N4590

The test report shall not be reproduced, except in full, without the approval of CSA International.