DNV GL – BUSINESS ASSURANCE

TYPE EXAMINATION CERTIFICATE

[2] Equipment Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

[3] Type Examination Certificate Number: **DNV 14 ATEX 4433X**

[4] Equipment: **Pressure and/or Temperature Transmitter Models 1**, 2**, and 3** , with or without Temperature Output**

[5] Applicant – Manufacturer / Authorized Representative: **GP:50 Ltd.**

[6] Address: **2770 Long Road,**
Grand Island, NY
14072 USA

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

[8] DNV GL certifies that this equipment has been found to comply with the Essential Health and Safety requirements that relate to the design of Category 3 equipment, which is intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in section 14.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2012, EN 60079-11: 2012 and EN 60079-15: 2010

[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 TYPE EXAMINATION CERTIFICATE relates only to the design, examinations and test of the specified equipment. If applicable, further requirements of this 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 shall include the following:

II 3 G **Ex ic IIC T5 Gc**
Ex nA IIC T5 Gc **-40 °C ≤ Ta ≤ +85 °C**

Houston, 2016-02-03
for DNV GL Business Assurance USA, Inc.

Jacob Thumberger
Product Certification Specialist

Al Engler
Technical Reviewer

This Type Examination Certificate applies only to the equipment described above and is invalid if not reproduced in its entirety

[13] **Schedule**

[14] Type Examination Certificate No.: DNV 14 ATEX 4433X

Certificate History

Revision	Description	Report no.	Issue date
-	Original certificate	2016-9061	2016-02-03

[15] Description of Equipment or Protective System

The Model 1**, 2**, and 3** are pressure/temperature transmitters constructed of a cylindrical stainless steel body with a pressure port/sensor assembly on one end and an electrical connection/wiring assembly on the other end. Electrical connections are made either via integral flying leads or via an integral connector. Pressure transmitter units may also include an optional RTD for measurement of temperature, which is considered as a separate electrical circuit from that of the pressure transmitter electronics.

Type Identification

Model 1aIb, where:**

* = Various numeric characters completing the base model number

a = Approval Code: A = ATEX and IECEx Zone 2

G = ATEX/IECEx/FM/CSA Zone 2

b = Various alphabetic or alphanumeric characters representing product options/modifications that do not affect certification.

Model 2aIb, where:**

* = Various numeric characters completing the base model number

a = Approval Code: A = ATEX and IECEx Zone 2

G = ATEX/IECEx/FM/CSA Zone 2

b = Various alphabetic or alphanumeric characters representing product options/modifications that do not affect certification.

Model 3abIc, where:**

* = Various numeric characters completing the base model number

a = Various alphabetic or numeric characters completing model number for 4-20mA product

b = Approval Code: A = ATEX and IECEx Zone 2

G = ATEX/IECEx/FM/CSA Zone 2

c = Various alphabetic or alphanumeric characters representing product options/modifications that do not affect certification.

Type Examination Certificate No.: DNV 14 ATEX 4433X

Electrical Data

Ex nA: 28V, 100mA

Ex ic:

	U_i	I_i	P_i	C_i	L_i
Model 1**	15V	100mA	0.7W	0nF	0mH
Model 2**	28V	100mA	0.7W	30nF	0mH
Model 2** (Option NF)	28V	100mA	0.7W	20nF	0mH
Model 3**	28V	100mA	0.7W	27.2nF	0mH
RTD (optional)	28V	100mA	0.7W	0nF	0mH

Degrees of protection (IP Code)

IP20 minimum

[16] Project No.: PRJC-65307-2008-PRC-USA

Descriptive Documents

Number	Title	Rev.	Date
A8AD-1XX-AN.A	Model 1XXAN/GN ATEX Type nA/ic	-	2015-04-16
A8AD-2XX-AN.A	Model 2XXAN/GN ATEX Type nA/ic	-	2015-04-16
A8AD-3XX-AN.A	Model 3XXAN/GN ATEX Type nA/ic	-	2015-04-16
8C1-64.00	ATEX/IEC ic/nA IIC, Models 37X AN/GN	A	2015-04-16
8C1-64.01	ATEX/IEC ic/nA IIC, Models 3XX AN/GN	A	2015-04-16
8C1-68.00	ATEX/IEC ic/nA IIC, Models 17X AN/GN	-	2015-04-16
8C1-68.01	ATEX/IEC ic/nA IIC, Models 1XX AN/GN	-	2015-04-16
8C1-70.00	ATEX/IEC ic/nA IIC, Models 27X AN/GN	-	2015-04-16
8C1-70.01	ATEX/IEC ic/nA IIC, Models 2XX AN/GN	-	2015-04-16
8W9-52	PCBD, Signal Conditioning Board	A3	2014-05-06
8W9-53.00	PCBD, Bridge Amp Board, 2 Layer	A2	2014-05-06
8W9-57	PCBD, Intrinsic Safety Barrier, 2 Layer	3	2014-05-06
8W9-59.00	PCBD, Compensation, 1.375 DIA	A6	2015-04-16
8W9-93.105	PC Board, General Voltage, Power Board	C1	2015-04-16
8W9-94.105	PC Board, General Voltage, Signal Conditioning Board	C1	2015-04-16
8W9-96.10	PC Board, General Current, Signal Conditioning, PCB 1	C1	2015-04-16
8W9-97.10	PC Board, General Current, Signal Conditioning, PCB 2, V.1	D1	2015-04-16
8W9-97.20	PC Board, General Current, Signal Conditioning, Low Noise	B1	2015-04-16
8W9-99.00	PC Board, Zero & Span	D1	2015-04-16
1W9-105.00	PCBD, EMI/RFI Board	-1	2015-04-16

Type Examination Certificate No.: DNV 14 ATEX 4433X

[17] Special Conditions for Safe Use

Ex ic Units:

- The equipment is not capable of passing the 500V dielectric test prescribed in EN 60079-11: 2012 Clause 6.3.13. This must be considered during installation of the equipment.
- When the optional RTD is included, it shall be considered as a separate electrical circuit and shall be installed as such.

Ex nA Units:

- Where permanently connected flying leads are provided, Type 'nA' wiring methods shall be considered during installation.

[18] Essential Health and Safety Requirements

See part 9 of this certificate

END OF CERTIFICATE