IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx PRE 16.0084

Issue No: 0

Certificate history:
Issue No. 0 (2017-05-22)

Status: **Current**

Date of Issue: **2017-05-22**

Applicant: **G.M. International S.r.l.**
Via G. Mamell, 53/55
I-20852 Villasanta (MB)
Italy

Equipment: **Isolators**
Optional accessory:

Type of Protection: **ia**

Marking:

[Ex ia Ga] IIC -20°C ≤ Ta ≤ +60°C
[Ex ia Ma] I -20°C ≤ Ta ≤ +60°C
[Ex ia Da] IIIC -20°C ≤ Ta ≤ +60°C

Approved for issue on behalf of the IECEx Certification Body: Asle Kaastad

Position: Certification Manager

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

DNV Nemko Presafe AS
Gaustadalleen 30
P.O.Box 73 Blindern
0314 Oslo
Norway

Presafe
A DNV & NEMKO COMPANY

IECEx Certificate of Conformity

Certificate No: IECEx PRE 16.0084 Issue No: 0

Date of Issue: **2017-05-22** Page 2 of 3

Manufacturer: **G.M. International S.r.l.**
Via G. Mamell, 53/55
I-20852 Villasanta (MB)
Italy

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

NO/PRE/ExTR16.0077/00

Quality Assessment Report:

NO/DNV/QAR07.0005/07

IECEx Certificate of Conformity

Certificate No: IECEx PRE 16.0084 Issue No: 0

Date of Issue: **2017-05-22**

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The D1054S series DIN Rail isolator is an associated apparatus designed as single channel galvanic isolator to interface intrinsically safe apparatus field devices located in hazardous area with non-intrinsically safe measuring and process control equipment located in safe area.

The D1061S series DIN Rail isolator is an associated apparatus designed as galvanic isolators to transfer bidirectional serial communication from hazardous area equipment and convert their signals to drive bidirectionally non-intrinsically safe digital communication systems located in safe area.

The D1063S series single DIN Rail strain gauge isolating repeater D1063S acts as a transparent galvanic isolated interface installed between a weighting indicator in safe area and load cell in hazardous area.

They are enclosed in a plastic enclosure suitable for installation on T35 DIN rails.

See the annex to this certificate for safety parameters.

SPECIFIC CONDITIONS OF USE: NO

Annex:

Annex to IECEx PRE 16.0084.pdf

DNV GL Nemko Presafe AS
Veritasveien 1
1363 Høvik
Norway

A DNV GL & NEMKO COMPANY

Annex to certificate: IECEx PRE 16.0084

Electric Safety Parameters:

D1054S

Input: Terminal 14-15-16 (Um) Input: Terminals 15-16			Output:		Output between +TX and +IN, Terminals 14 and 15		Output between +IN and -IN, Terminals 15 and 16	
Um:	250	V	Uo:		26,3	V	1,1	V
Ui:	30	V	Io:		91	mA	56	mA
Ii:	128	mA	Po:		597	mW	16	mW
Li:	0	mH	Lo:	I	70,0	mH	148	mH
				IIA	34,5	mH	90,7	mH
				IIB	17,2	mH	45,3	mH
				IIC	4,3	mH	11,3	mH
				IIIC	17,2	mH	45,3	mH
Ci:	1,05	nF	Co:	I	4,39	µF	1000	µF
				IIA	2,51	µF	1000	µF
				IIB	738	nF	1000	µF
				IIC	95	nF	100	µF
				IIIC	738	nF	1000µF	µF
			Lo/Ro	I	782,2	µH/Ω	30,55	mH/Ω
				IIA	476.8	µH/Ω	18,618	mH/Ω
				IIB	238,4	µH/Ω	9,309	mH/Ω
				IIC	59,6	µH/Ω	2,327	mH/Ω
				IIIC	238,4	µH/Ω	9,309	mH/Ω

D1061S

Input:		Output:			
Um:	250V	Uo:		3,7	V
Ui:	30V DC	Io:		225	mA
Ii:	282 mA	Po:		206	mW
Li:	0	Lo:	I	11,75	mH
			IIA	5,6	mH
			IIB	2,8	mH
			IIC	0,7	mH
			IIIC	2,8	mH
Ci	0	Co:	I	1000	µF
			IIA	1000	µF
			IIB	1000	µF
			IIC	100	µF
			IIIC	1000	µF
		L_0/R_0:	I	2274	µH/Ω
			IIA	1386	µH/Ω
			IIB	693	µH/Ω
			IIB	173	µH/Ω
			IIIC	693	µH/Ω

DNV GL Nemko Presafe AS
Veritasveien 1
1363 Høvik
Norway

A DNV GL & NEMKO COMPANY

Annex to certificate: IECEx PRE 16.0084

D1063S

Input:Terminal 1 to 8 (Um) Input: Terminal 13-14			Output:		Output terminal 9,10,11,12(including terminals 13 and 14)		Output terminals 13 and 14	
Um:	250	V	Uo:		17,3	V	17,3	V
Ui:	30	V	Io:		199,6	mA	7	mA
			Po:		860	mW	31	mW
Li:	0	mH	Lo:	I	11,75	mH	3,93	H
				IIA	6,8	mH	2,4	H
				IIB	3,4	mH	1,2	H
				IIC	0,85	mH	0,3	H
				IIIC	3,4	mH	1,2	H
Ci:	2,1	nF	Co:	I	11,79	µF	11,8	µF
				IIA	8,5	µF	8,5	µF
				IIB	2,06	µF	2,06	µF
				IIC	351	nF	353	nF
				IIIC	2,06	µF	2,06	µF
			Lo/Ro:	I	543,25	µH/Ω	15,47	mH/Ω
				IIA	329,6	µH/Ω	8,22	mH/Ω
				IIB	164,8	µH/Ω	4,11	mH/Ω
				IIC	41,2	µH/Ω	1,02	mH/Ω
				IIIC	164,8	µH/Ω	4,11	mH/Ω