



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 TUN 16.0005X** issue No.: **0** Certificate history:

Status: **Current**

Date of Issue: **2016-04-07** Page 1 of 3

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

Electrical Apparatus: **Load Cell / Strain Gauge Bridge Isolating Repeater/Converter Type D5263S and D5264S**
Optional accessory:

Type of Protection: **ia, nA**

Marking: **Ex nA [ia Ga] IIC T4 Gc**
[Ex ia Da] IIIC
[Ex ia Ma] I

Approved for issue on behalf of the IECEx
Certification Body:

Karl-Heinz Schwedt

Position:

Head of Certification Body

Signature:
(for printed version)

Date:

20/16-0407

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](http://www.iecex.com).

Certificate issued by:

TÜV NORD CERT GmbH
Hanover Office
Am TÜV 1
30519 Hannover
Germany





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Manufacturer: **G.M. International S.r.l.**
Via Mameli, 53-55
20852 Villasanta (MB)
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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"
IEC 60079-15 : 2010 Edition: 4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"

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:
[DE/TUN/ExTR16.0013/00](#)

Quality Assessment Report:

[NO/DNV/QAR07.0005/06](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The D5263S and D5264S modules are Associated Apparatus designed as single channel galvanic isolators to interface Intrinsically Safe apparatus field devices located in Hazardous Area with non-intrinsically safe measuring and process control equipment located in non-explosive atmosphere. They are packaged in a plastic enclosure suitable for installation on T35 DIN Rail according to IEC 50022, with or without Power Bus connector, or on Termination Board (only for D5264S) provided with customer dedicated connection, and located in non-explosive atmospheres or potentially explosive gas atmospheres.

See Attachment to IECEx TUN 16.0005X_ Issue 0 for all details.

CONDITIONS OF CERTIFICATION: YES as shown below:

The device for installation in zone 2 has to be installed in an additional enclosure with a degree of protection of at least IP 54 according to the IEC 60079-15.

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Attachment to IECEx TUN 16.0005X Issue 0

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Electrical connections are accommodated by plug-in removable terminal block or with customer dedicated connector when installed on Termination Board (only for D5264S). Supply voltage can optionally be fed through the Termination Board or by the Power Bus connector installed on DIN Rail.

The D5263S module (Strain Gauge Bridge Isolating Repeater) provides a fully floating supply voltage with remote sensing capability to a strain gauge located in potentially explosive atmosphere and repeats, with isolation, the mV signal output to drive a load or other measuring equipment located in non-explosive atmosphere. The unit typically acts as a transparent galvanic isolated interface installed between a weighting indicator and a load cell (or a group of up to 10 load cells).

The D5264S module (Load Cell/Strain Gauge Bridge Isolating Converter) provides a fully floating supply voltage with remote sensing capability to strain gauge located in potentially explosive atmosphere and converts the strain gauge mV signal to a totally floating (that is, isolated from input and supply) 0/4-20 mA analogue signal (providing both current source and sink capabilities) to drive a load or other measuring equipment located in nonexplosive atmosphere. In addition, the unit provides an opto-coupled open collector transistor (photo-MOS) alarm output.

Permissible range of ambient temperature: -40°C to +70°C.

The following variants are covered by this certificate:

- D5263S
- D5263S-xxx
- D5264S
- D5264S-xxx

Electrical data:

Safe area connections at terminal block

Power Supply

Power supply.....	Rated Voltage U_n : 24Vdc nominal (18 to 30 V)
(terminals : 9 (+) and 10 (-))	Maximum Voltage U_m : 250Vac

Output

Weighting indicator.....	Maximum Voltage U_m : 250Vac
(terminals for D5263S: 1 (Ch1 EXC+) and 4 (Ch1 EXC-), 2 (Ch1 Sense+) and 3 (Ch1 Sense-), 5 (Ch1 IN+) and 6 (Ch1 IN-))	
(terminals for D5264S: 1 and 2 (output), 3+ and 4- (Alarm out), 11 A- and 12 B+ (Modbus))	

Hazardous area connections at terminal block

Load cell.....	$U_o = 7.2 \text{ V}$
(terminal: 13 (Ch1 EXC+) and 16 (Ch1 EXC-)	$I_o = 177 \text{ mA}$
14 (Ch1 Sense+) and 15 (Ch1 Sense-).....	$P_o = 471 \text{ mW}$
17 (Ch1 IN+) and 18 (Ch1 IN-).....	$C_o = 0.3 \mu\text{F}$ (IIC), $1.5 \mu\text{F}$ (IIB and IIIC), $2.2 \mu\text{F}$ (IIA), and $2.8 \mu\text{F}$ (I)
	$L_o = 0.5 \text{ mH}$ (IIC), 6.5 mH (IIB and IIIC), 9.5 mH (IIA), 13 mH (I)
	$C_i = 1.1 \mu\text{F}$
	$L_i = \text{negligible}$