





DET NORSKE VERITAS

EC-TYPE EXAMINATION CERTIFICATE


- [2] **EQUIPMENT OR PROTECTED SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC**
- [3] EC-Type Examination Certificate Number: **DNV-2004-OSL-ATEX- 0066**
- [4] Equipment or Protective System: **4 ½ digit 4-20mA Loop Indicator Type T3010**
- [5] Manufacturer: **G.M. International S.r.l.**
- [6] Address: **Via San Fiorano, 70, 20058 Villasanta (MI), Italy**
- [7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV, notified body number 0575 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential report no.: **2004-3061**
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014: 1997 + A1: 1999 + A2: 1999, EN 50020:2002 and EN50284:1999
- [10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system 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 and construction of the specified equipment or protected system. If applicable, further requirements of this Directive apply to the manufacturer and supply of this equipment or protective system.
- [12] The marking of the equipment or protective system shall include the following :

 **II 1 G D EEx ia IIC T6/T5 Tamb = -20°C to +60°C**

Høvik, 2004-03-08
for Det Norske Veritas Certification AS


Line Gangeskar
Head of Section




Håkon S. Håkonsen
Senior Engineer

Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



[13]

Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE No.:** DNV-2004-OSL-ATEX-0066

[15] **Description of Equipment:**

The 4 ½ digit 4-20mA Loop Indicator type T3010 is a Hazardous area field mounted digital indicator, intrinsically safe with type of protection (EX) II 1 G D , EEx ia IIC T5/T6.

It can be powered by an intrinsically safe 4-20mA current loop for applications in Zone 0, 1 and 2 to any certified intrinsically safe circuit whose output parameters do not exceed $U_o \leq 30V$, $I_o \leq 200mA$, $P_o \leq 0,85W$ for T5 application, and $U_o \leq 30V$, $I_o \leq 100mA$, $P_o \leq 0,85W$ for T6 application.

Electrical data:

Power:

Temp.class	T5	T6
U _i =	30V DC	
I _i =	200 mA	100mA
P _i =	0,85 W	
L _i =	0 mH	
C _i =	0 μF	

Communication:

U _o =	1,2 V DC
I _o =	100 mA
P _o =	25 mW

[16] **Report No.:** 2004-3061

Project No.: 42035316

Descriptive Documents

Number	Title	Rev.	Date
CRR017	Certification Report T3010	1	
PCF057	Printed Circuit Board T3010	1	2003-08-01
SCD053	Electrical Schematic T3010	1	2003-08-01

[17] **Special Conditions for Safe Use**

NA

[18] **Essential Health and Safety Requirements**

See part 9 of this certificate



END OF CERTIFICATE

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision 'Det Norske Veritas' shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.