

Translation

(1) **EC-Type Examination Certificate**

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 94/9/EC**



- (3) **Certificate Number** TÜV 12 ATEX 109610
- (4) for the equipment: Electromagnetic Level Indicator Model CRXI
- (5) of the manufacturer: F.lli GIACOMELLO S.n.c.
- (6) Address: Via Magenta, 77 cap 15/A
20017 - Rho (MI) - Italy

Order number: 8000413387

Date of issue: 2012-12-14

- (7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV NORD CERT GmbH, notified body No. 0044 in accordance with Article 9 of the Council Directive of the EC of March 23, 1994 (94/9/EC), 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 the confidential report No. 12 203 109610
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012 EN 60079-11:2012 EN 60079-26:2008

- (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, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment or protective system must include the following:

 II 1/2G Ex ia IIC T5 Ga/Gb -20°C<=Tamb<=+60°C

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, accredited by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the certification body

Schwedt

Hanover office, Am TÜV 1, 30519 Hanover, Fon +49 (0)511 986 1455, Fax +49 (0)511 986 1590

A handwritten signature in black ink, appearing to be 'Giacomello', written over a horizontal line.

This certificate may only be reproduced without any change, schedule included.
Excerpts or changes shall be allowed by the TÜV NORD CERT GmbH

(13) **SCHEDULE**

(14) **EC-Type Examination Certificate No. TÜV 12 ATEX 109610**

(15) Description of equipment

The level indicator is used to monitor the level of a fluid inside a vessel with presence of potentially explosive atmosphere.

The level indicator is made of a metallic body (tube, box and process connection) containing a printed circuit board with resistors and reed switches mounted on it and a transducer able to convert the measure of the impedance of the printed circuit board into electric signals (4-20mA).

A floating magnet, moving along the tube containing the printed circuit board, makes the reed switches open/close so as to change the impedance read by the transducer accordingly to the level of the fluid.

Technical data

Permitted range of the ambient temperature	- 20 °C to 60 °C
Permitted range of the process temperature	- 20 °C to 60 °C

Intrinsic safety interface of the equipment (maximum values):

$U_i = 30V_{dc}$; $I_i = 101mA$; $P_i = 758mW$; $C_i = 0nF$; $L_i = 0uH$.

(16) Test documents are listed in the test report No. 12 203 109610.

(17) Special conditions for safe use

none

(18) Essential Health and Safety Requirements

no additional ones

