



Certificate of Compliance

Certificate: 2320732

Master Contract: 162767

Project: 70000024

Date Issued: February 21, 2013

Issued to: Krohne Altometer
Kerkeplaat 12
THE NETHERLANDS
Attention: Mr G. De Boer

The products listed below are eligible to bear the CSA Mark shown



Issued by: E Giusti
E Giusti

PRODUCTS

CLASS 2258-02 – Process Control equipment for Hazardous Locations

CLASS I, Div 1 and 2, Groups B,C,D T5

CLASS II, Div 1 and 2, Groups E,F,G

CLASS III

Enclosure type 4X, IP66

The Ultrasonic gas flow meter type ALTOSONIC V12 / OPTISONIC V6 consist of a meter body with an electronics unit installed on top of it. A number of ultrasonic transducers are installed inside the meter body.

Each pair of ultrasonic transducers constitute an acoustic path (measuring path).

The ALTOSONIC and OPTISONIC are available in 2 versions: V12-T and V6-T for the Twin meter version , and the V12-D and V6-D for the Direct meter version.

Ratings: 24 Vdc, max. 17,5 W (with Diagnostic board) Max. 10W (without Diagnostic board)

Ambient temperature range -40 °C... +60 °C.



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APPLICABLE REQUIREMENTS

C22.2 No 0-M91 R2006	Canadian Electrical Code, Part II
C22.2 No. 0.4-04 R2009	Bonding and Grounding of Electrical Equipment (Protective Grounding)
C22.2 No. 25-1966 R2009	Enclosures for Use in Class II, Groups, F and G Hazardous Locations
C22.2 No. 30-M1986 R2007	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
C22.2 No. 94-M91 R2006	Special Purpose Enclosures
CAN/CSA C22.2 610101-1-04	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements.

Following standard was followed as a guide: CAN/CSA E60079-18

MARKINGS

Product markings shall be in accordance with the related standards. In addition, it shall be the responsibility of the manufacturer to provide additional markings on the product to comply with the requirements of the local regulatory authorities. For example, in Canada, any caution and warning markings must be provided in French and English.

CSA Monogram

- Company name or Master Contract
- Model number
- Serial number
- Electrical rating
- Hazardous locations designation
- Special purpose enclosure designation, "TYPE 4X"
- Ambient temperature range
- Temperature Code Rating □ Temp. Code T..
- Caution keeping cover tight while circuits are live
- Conduit seal required within 18 inch

Method of marking: Etched onto enclosure per nameplate drawing 8.30758.01



Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
2320732	July 23, 2010	Original Certification of ultrasonic gas flow meters type ALTOSONIC V12 / OPTISONIC V6.
70000024	February 21, 2013	Addition of optional printed circuit board; this “diagnostic board” adds diagnostic features to the function of the ultrasonic gas flow meter Addition of new transducer models