

(1) **EC-TYPE EXAMINATION CERTIFICATE**

- (2) Equipment or protective system intended for use in potentially explosive atmospheres – Directive 94/9/EC
- (3) EC-Type Examination Certificate Number: **KEMA 00ATEX2118 X**
- (4) Equipment or protective system: **Ultrasonic Gas Flow Converter type GFC 700 F-EEEx**
- (5) Manufacturer: **Krohne Altometer**
- (6) Address: **Kerkeplaat 12, 3313 LC, Dordrecht, The Netherlands**

- (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) KEMA, notified body number 0344 in accordance with Article 9 of the 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. 2006240.

- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014 : 1997 EN 50018 : 2000 EN 50019 : 2000

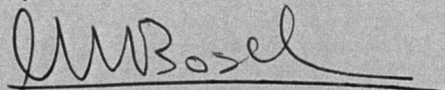
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EC-Type Examination Certificate relates only to the design and construction of the specified equipment or protective system. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.
- (12) The marking of the equipment or protective system shall include the following:



II 2 G

EEx de IIC T6 or EEx d IIC T6

Arnhem, 12 September 2001
by order of the Board of Directors of N.V. KEMA



C.M. Boschloo
Certification Manager

° This Certificate may only be reproduced in its entirety and without any change

(13)

SCHEDULE

(14)

to EC-Type Examination Certificate KEMA 00ATEX2118 X

(15) **Description**

The Ultrasonic Gas Flow Converter type GFC 700 F-EEEx is the remote unit that is to be connected to the remote measuring unit Ultrasonic Gas Flowmeter type GFS 700 F-EEEx. The enclosure is constructed in type of explosion protection flameproof enclosure "d", with a terminal compartment either in type of explosion protection flameproof enclosure "d" or increased safety "e".

The converter unit supplies power to the GFS 700-EEEx unit and processes the electrical measurement signals thereof.

Ambient temperature range $-40\text{ }^{\circ}\text{C} \dots +60\text{ }^{\circ}\text{C}$.

Electrical data

Power supply 100-240 Vac, 48 ... 63 Hz, 13 VA, or
24 Vdc, 8 W

Current output max. 22 mA, $U \leq 18\text{ V}$

Pulse in-/outputs max. 150 mA, $U \leq 36\text{ V}$

Installation instructions

The cable entry devices shall be of a certified ("ATEX" or "E-generation") type EEx d for the terminal compartment in type of protection flameproof enclosure "d" or of a certified type EEx e for the terminal compartment in type of protection increased safety "e", suitable for the conditions of use and correctly installed.

Unused apertures shall be closed with suitable blanking elements.

Routine tests

Routine tests according to Clause 16 of EN 50018 are not required since the type test has been made at a static pressure of four times the reference pressure.

(16) **Report**

KEMA No. 2006240.

(17) **Special condition for safe use**

The unterminated cable from the converter housing is to be connected and terminated in the terminal box of the GFS 700 F-EEEx sensor assembly.

The cable between the GFC 700 F-EEEx converter housing and the terminal box of the GFS 700 F-EEEx sensor assembly, is to be fixed installed in such a way that it is protected against mechanical damage.

(13)

SCHEDULE

(14)

to EC-Type Examination Certificate KEMA 00ATEX2118 X

(18) **Essential Health and Safety Requirements**

Essential Health and Safety Requirements not covered by the standards listed at (9)	
Clause	Subject
1.0.5	Marking
1.0.6 b) and d)	Instructions

These Essential Health and Safety Requirements are examined and positively judged.
The results are laid down in the report listed at (16)

(19) **Test documentation**

1. Component Certificate PTB 98.E.1046 U
Certificate of Conformity L.C.I.E. 92.C6075 X

Signed:

2. Description (6 pages))
3. Drawing No. 8.30872.10 rev. A) 06.09.2001
8.30872.09)
33119301)
33119401)
4. Samples