

TÜV - CERT

EC-Type Examination Certificate

**Directive 94/9/EC –
Equipment and protective systems intended for use
in potentially explosive atmospheres**

(3) No. of EC-Type Examination Certificate

TÜV 96 ATEX 1101

(4) **Equipment:** **Inline Sensor Type FCI-.... ..Ex-...**

(5) **Manufacturer:** **Hans Turck GmbH & Co.KG.**

(6) **Address:** **D-45472 Mülheim an der Ruhr, Witzlebenstraße 7**

(7) The design and construction of this equipment and any acceptable variation thereto are specified in the schedule to this type examination certificate.

(8) The certification body of TÜV Hannover/Sachsen-Anhalt e.V., TÜV CERT-Zertifizierungsstelle, notified body no. 0032 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment 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 test and assessment report no. 44/96/2010.

(9) The Essential Health and Safety Requirements are assured by compliance with:

EN 50 014:1977 + A1...A5 1.87 EN 50 020:1977 + A1...A5 4.92

(10) If the sign „X“ is placed after the certificate number, it indicates that the equipment 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. Further requirements of Directive 94/9/EC apply to the manufacture and placing on the market of this equipment.

(12) The marking of the equipment shall include the following:



TÜV Hannover/Sachsen Anhalt e.V.
TÜV CERT-Zertifizierungsstelle
Am TÜV 1
D-30519 Hannover
Störwald
Der Leiter

Hannover, dated 1996-07-16

(13)

Appendix to

(14)

EC-Type Examination Certificate TÜV 96 ATEX 1101

(15)

Description of the device

The inline sensor type FCI-.... ..Ex... is designed for flow rate monitoring of gaseous and liquid media.

The pressure connection, the electronic housing and the electrical connections may be installed in zone 1.

When selecting the housing material (preferably CrNi-stainless steel or Hastelloy) it must be ensured, that the material is suited to withstand the respective operating conditions.

The correlation between admissible max. temperature and temperature class can be taken from the following table:

Admissible max. temperature	Temperature class
70 °C	T4
65 °C	T5
50 °C	T6

Electrical parameters

Supply & signal current circuit
(connector connection) Protection type „intrinsic safety“ EEx ib IIC.
only for connection to an approved intrinsically safe circuit with the following maximum values:

$$U_i \leq 13.6 \text{ V}$$
$$P_i = 0.69 \text{ W}$$

The effective internal capacitance and inductance are negligible.

(16)

Test documents, consisting of 3 pages including 1 drawing, are listed in the test report.

(17)

Special conditions for safe use
not relevant

(18)

Basic safety and health requirements
fulfilled by application of above mentioned standards

TÜV NORD