TÜV- CERT

Translation valid only with German certificate!

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

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – Directive 94/9/EG

(3) EC-Type Examination Certificate Number **TÜV 99 ATEX 1517 X**

(4) **Equipment:** **Flow Control Sensor Type FCSC...**

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

(6) **Address:** **Witzlebenstr. 7, D-45472 Mülheim**

(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 Hannover/Sachsen-Anhalt e.V., TÜV CERT-certification department, notified body no. 0032 in accordance to Article 9 of the instructions of the Council of the European Parliament of 23 March 1994, (94/9/EG) 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 test results are recorded in confidential test report No. 99/PX29490.

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

EN 50014:1997 EN 50020:1994 prEN 50284:1997

(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 conforming to Directive 94/9/EC. Further requirements of this directive apply to the manufacture and placing on the market of this equipment. Theses demands are not covered by this certification.

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

II 1/2 G EEx ia IIC T6

TÜV Hannover/Sachsen-Anhalt e.V.
TÜV Cert-Zertifizierungsstelle
Am TÜV 1
D-30519 Hannover

Hannover, 22.11.1999

TÜV NORD

(13) **A P P E N D I X**

(14) **EC-Type Examination Certificate No. TÜV 99 ATEX 1517 X**

(15) Description of device

The type FCSC… sensors are designed for monitoring the flow of liquid or gaseous media. The measurement transducer can be installed in explosion hazardous areas to category 1 (Zone 0), the housing can be installed in explosion hazardous areas to category 2 (Zone 1).

The highest admissible ambient temperature relating to the temperature class and sensor version can be taken from the following table

Maximum medium/ambient temperature		
Temperature class	Standard sensor type FCSC	Highest temperature sensor types FCSCH
T6	45°C	45°C
T5 – T3	60°C	60°C

Enhancement of the temperature range: see (17) – Special conditions

Electrical data

Sensor current circuit (pigtail or connector) — In intrinsically safe protection degree EEx ia/ib IIC/IIB only for connection to certified intrinsically-safe circuits with the following maximum value:
P_i = 0.69 W

The internal capacitance and inductance are negligable.

(16) Examination records consisting of 4 pages are mentioned in the test report

(17) Special conditions

The measurement transducers may only be used in category 1 explosion hazardous atmospheres when the admissible atmospheric conditions are present (temperature of -20°C to 60°C, pressure of 0.8 bar to 1.1 bar). If the explosive atmosphere is not conform to the conditions of category 1 (Zone 0), the highest permissible ambient temperatures in the measurement transducer area should be taken from the following table.

Maximum medium/ambient temperature		
Temperature class	Standard sensor type FCSC	Highest temperature sensor types FCSCH
T6	45°C	45°C
T5	60°C	60°C
T4	80°C	95°C
T3		120°C

The gas group is confined to IIB on non-metallic sensors and sensors with measurement transducer coating

(18) Basic safety and health requirements

No additional requirements

TÜV NORD

TURCK

Konformitätserklärung Nr. 3015 M

Declaration of Conformity

Wir/We HANS TURCK GMBH & CO KG
WITZLEBENSTR. 7

D - 45472 MÜLHEIM A. D. RUHR

erklären in alleiniger Verantwortung, daß die Produkte
declare under our sole responsibility that the products

Strömungswächter Typ FCS...
(Ex-Kennzeichnung FCSC)

auf die sich die Erklärung bezieht, mit den folgenden Normen übereinstimmen
to which this declaration relates are in conformity with the following standards.

EN 50081 - 2

EN 50082 - 2

und wo anwendbar / and where applicable

EN 50014
EN 50020

Gemäß den Bestimmungen der Richtlinie
Following the provisions of Directive (falls zutreffend/ if applicable)

EMV - Richtlinie / EMC Directive
89 / 336 / EWG 3. Mai 1989
Richtlinie ATEX 100a / Directive ATEX 100a
94 / 9 / EG 23. März 1994
Niederspannungsrichtlinie / Low Voltage Directive
73 / 23 / EWG 19. Februar 1973

Aussteller der EG-Baumusterbescheinigung:
TÜV Hannover / Sachsen-Anhalt e.V.
TÜV-CERT-Zertifizierungsstelle
Am TÜV 1, D-30519 Hannover
Kenn-Nr. 0032

Registriernummer: TÜV 96 ATEX 1517X

Mülheim, den 27.10.00 (I.V. W. Stoll)

Ort und Datum der Austellung / Place and date of issue

Name und Unterschrift des Befugten / name and signiture of authorized person

Diese Konformitätserklärung entspricht der Europäischen Norm EN 45014 "Allgemeine Kriterien für Konformitätserklärungen von Anbietern". Die Grundlage der Kriterien sind internationale Dokumente, insbesondere ISO/IEC-Leitfaden 22, 1982, "Information on manufacturer's declaration of conformity with standards or other technical specifications".

This Declaration of Conformity is suitable to the European Standard EN 45014 "General criteria for supplier's declaration of conformity". The basis for the criteria has been found in international docomentation, particularly in ISO/IEC-Guide 22, 1982, "Information on manufacturer's declaration of conformity with standards or other technical specifications".