



Translation

(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

**TÜV 00 ATEX 1656 X**

(4) Equipment: Tank level gauge type LS 300...

(5) Manufacturer: FAFNIR GmbH

(6) Address: Bahrenfelder Strasse 19  
D-22765 Hamburg

(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) The TÜV Hannover/Sachsen-Anhalt e.V., TÜV CERT-Certification Body, notified body number N° 0032 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 N° 01YEX133817.

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

**EN 50 014: 1997**

**EN 50 020: 1994**

**EN 50 284:1999**

(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 according to Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and placing on the market of this equipment or protective system.


(12) The marking of the equipment or protective system must include the following:



**II 1 G EEx ia IIC T4 resp.**

**II 1/2 G EEx ia IIC T4**

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

  
Head of the  
Certification Body



Hanover, 2001-03-20



## SCHEDULE

(13)

(14) **EC-TYPE EXAMINATION CERTIFICATE N° TÜV 00 ATEX 1656 X**

(15) Description of equipment

The tank level gauge type LS 300... consisting of the sensor with integrated PTC resistor, the tube, the screw-in body resp. flange and the junction box is intended for the connection to the measuring transmitter type LS 500... The gauge will be erected at tanks whereby the sensor will be placed in zone 0.

A short circuit or open circuit between the level detector and the transducer will be signaled.

When using the associated over voltage protection the marking is:

II 1/2 G EEx ia IIC T4

### Electrical Data

#### **Type LS 300...**

Signal transmitter circuit(s)

in type of protection „Intrinsic Safety“ EEx ia IIB/IIC  
only for the connection to associated measuring transmitter of  
the type LS 500, LS 500 19", LS 500 19" Duo or LS 500 19"  
AK5 according to EC-type Examination Certificate No.  
TÜV 00 ATEX 1641

#### **Type LS 300 FS... Tantal**

Signal transmitter circuit(s)

in type of protection „Intrinsic Safety“ EEx ia IIB  
only for the connection to associated measuring transmitter of  
the type LS 500, LS 500 19", LS 500 19" Duo or LS 500 19"  
AK5 according to EC-type Examination Certificate No.  
TÜV 00 ATEX 1641

The signal transmitter circuits are galvanically separated against each other and against earth.

(16) Test documents are listed in the test report No.: 01 YEX 133817.

(17) Special conditions for safe use

1. The tank level gauges of the stated types have be connected to signal transmitter circuits of the measuring transmitter type LS 500... only.
2. When using the associated over voltage protection equipontial bonding is required.

(18) Essential Health and Safety Requirements

no additional ones