

Translation  
**EC-Type Examination Certificate**

**TUV NORD**



- (2) Equipment and protective systems intended for use in potentially explosive atmospheres  
- **Directive 94/9/EC**
- (3) EC-Type Examination Certificate Number

**TÜV 05 ATEX 2731**

- (4) Equipment: Flow controller Type 107. ... and 31d ...
- (5) Manufacturer: Dosch Messapparate GmbH
- (6) Address: Wiener Straße 10  
D-10999 Berlin

- (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 NORD CERT GmbH & Co. KG, 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° 05 YEX 551689.

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

EN 1127-1:1997	EN 13463-1:2001	EN 13463-5:2003	EN 50014:1997 +A1+A2
EN 50018:2000+A1	EN 50 019:2000	EN 50284:1999	EN 50281-1-1:1998+A1

- (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, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

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

 **II 1/2 GD EEx c ia IIC T85°C IP 65 resp. II 1/2 GD EEx c de IIC T85°C IP 65**

Hanover, 2005-03-14

TÜV NORD CERT GmbH & Co. KG

Am TÜV 1

30519 Hanover

Tel.: +49 (0) 511 986-1455

Fax: +49 (0) 511 986-1590

Head of the  
Certification Body

(13)

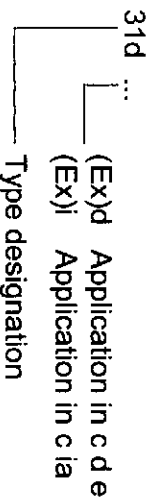
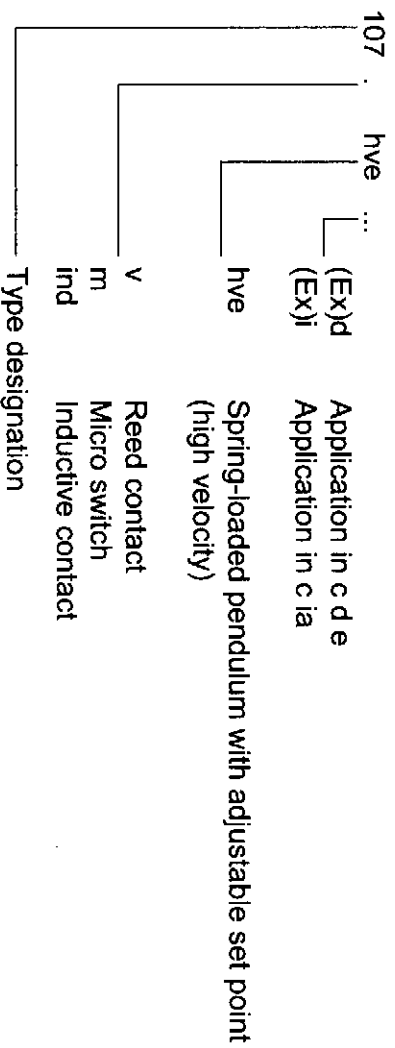
## SCHEDULE

(14) **EC-Type Examination Certificate N° TÜV 05 ATEX 2731**

(15) Description of equipment

The flow controller Type 107 ... serves for the control of flow in tubes with the nominal width DN 25 to 500 and the flow controller Type 31d ... serves for the control of flow in tubes with the nominal width DN 15 to 150

### Type key



### Technische Daten

Permitted range of the ambient temperature	- 20 °C to 40 °C		
Permitted temperature range internal at the rising tube	- 20 °C to 40 °C		
Permitted range of the medium pressure by the present of explosive atmosphere	0.8 to 1.1 bara		
Limit switch frequency	60 switches per minute		
Marking			
<b>II 1/2 GD EEx c ia IIC T85°C IP 65</b>  Only for the connection to a certified intrinsically safe circuit [ia] with the following values:	<b>II 1/2 GD EEx c de IIC T85°C IP 65</b>		
	Min. connection cross section		1.5 mm <sup>2</sup>
	Reed contact	8443-09-..	8003-02-..
Ui	16 V	Max. switching voltage	250 V AC/DC
			42 V AC/DC

## Schedule EC-Type Examination Certificate N° TÜV 05 ATEX 2713

II	25 mA	Max. switching current	2 A	0,3 A
PI	64 mW	Max. switching power	300 VA / 200 W	13 VA/W

The effective inner capacitances and inductances of the separate certified intrinsic sensors are to infer from the appropriated certificates.

(16) Test documents are listed in the test report N° 05 YEX 551689.

(17) Special conditions for safe use

none

(18) Essential Health and Safety Requirements

no additional ones