



FM Approvals  
1151 Boston-Providence Turnpike  
P.O. Box 9102 Norwood, MA 02062 USA  
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# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

***Magnet Probe Magnet-Ex 12***

IS / I / 1 / ABCD / T6 Ta = 50°C; Type 2  
I / 0 / AExia / IIC / T6 Ta = 50°C; Type 2

**Equipment Ratings:**

Intrinsically safe for Class I, Division 1, Groups A, B, C, and D hazardous (classified) locations and intrinsically safe for Class I, Zone 0

**Approved for:**

ecom instruments GmbH  
Industriestraße 2 D-97959 Assamstadt Germany



This certifies that the equipment described has been found to comply with the following FM Approval Standards and other documents:

Class 3600	1998
Class 3610	1999
Class 3611	1999

Original Project ID: 3009962

FM Approval Granted: January 19, 2001

Subsequent Revision Reports / Date FM Approval Amended

Report Number	Date	Report Number	Date
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FM Global Technologies LLC

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Nicholas P. Ludlam  
Technical Team Manager

October 15, 2003  
Date

NOT to be distributed outside of FMGlobal except by CUSTOMER.

# APPROVAL REPORT

**MAGNET-Ex 12 MAGNET PROBE  
FOR USE IN  
HAZARDOUS (CLASSIFIED) LOCATIONS**

**Prepared for:**

**ECOM Rolf Nied GmbH  
Industriestraße 2  
D-97959 Assamstadt, Germany**

**Project ID: 3009962**

**Class 3610, 3611**

**Date: February 2, 2001**

***Supersedes report dated December 20, 2000***

Factory Mutual Research Corporation  
1151 Boston-Providence Turnpike  
P.O. Box 9102  
Norwood, MA 02062

3009962  
 (3610, 3611)

February 2, 2001  
*Supersedes report dated December 20, 2000*

MAGNET-Ex 12 MAGNET PROBE  
 FOR USE IN  
 HAZARDOUS LOCATIONS

From

ECOM Rolf Nied GmbH  
 Industriestraße 2  
 D-97959 Assamstadt, Germany

**I INTRODUCTION**

**1.1 Standards**

ECOM Rolf Nied GmbH requested Approval of the apparatus listed in Section 1.2 to be in compliance with the applicable requirements of the following standards:

Title	No.	Issue Date
Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous (Classified) Locations	3610	October 1999
Note: Factors applied to voltage or current rather than energy.		
Electrical and Electronic Test, Measuring, and Process Control Equipment	3810	March 1989
Electrical Equipment for Use in Hazardous (Classified) Locations	3600	November 1998

**1.2 Magnet Probe Magnet-Ex 12**

The following was evaluated as intrinsically safe for Class I, Division 1, Groups A, B, C, and D hazardous (classified) locations with a Type 2 enclosure and intrinsically safe for Class I, Zone 0, Group IIC hazardous (classified) locations Type 2 and will appear in the Approval Guide as follows:

**Magnet-Ex 12 Magnet Probe**

IS/I/1/ABCD/T6 Ta = 40°C; Type 2  
 I/1/AEx ia/IIC/T6 Ta = 40°C; Type 2