



420-0004-279		Sht. 1 of 2	APPD BY SGA
ISSUE	EDD NO.	APPD	DATE
2	4-10-121	SGA	5/3/10
3	1-11-115	CTHA	21/11

Page 1 of 2

## [1] EC-TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protected System Intended for use  
in Potentially explosive atmospheres  
Directive 94/9/EC

[3] EC-Type Examination Certificate Number: Nemko 04ATEX1469X Issue No.: 2

[4] Equipment or Protective System: Magnetostriuctive Liquid Level Probe

[5] Applicant/ Manufacturer: Ametek Drexelbrook

[6] Address: 205 Keith Valley Road  
Horsham, PA 19044  
USA

[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] Nemko AS, notified body number 0470 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, 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 confidential report no. 165316

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

CENELEC EN 50014: 1997 + A1: 1999 + A2: 1999, CENELEC EN 50020:2002, CENELEC EN 50284:1999

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

[12] The marking of the equipment or protective system shall include the following:

II 1 G EEx ia IIB T4, Tamb=70°C

Oslo, 2011-01-27

Rolf Hoel  
Certification Manager, Ex-products

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Postal address:  
P.O.Box 73 Blindern  
N-0314 OSLO, NORWAY

Office address:  
Gaustadalléen 30  
0373 OSLO

Telephone:  
+47 22 96 03 30  
Fax:  
+47 22 96 05 50

Enterprise number:  
NO 974404532



### [13] Schedule

#### [14] EC-TYPE EXAMINATION CERTIFICATE No Nemko 04ATEX1469X Issue 2

##### [15] Description of Equipment or Protective System

DM330 is a loop powered 4-20mA Magnetostrictive Level Probe. The output of the sensor is proportional to the level of the liquid measured. This is accomplished by sensing the magnetic field of the magnet that is floating on the surface of the liquid being measured. The sensor is available in either PVDF or steel housing. The apparatus is a three wire device, with connection facilities for power/signal (IN+), programming (SETIN) and common (IN-) and may be supplied from either 1 or 2 intrinsically safe barriers as shown on the control drawing 420-0004-233-CD.

##### Type Designations and Data

DM330

Maximum input voltage.	U <sub>i</sub> =	30V
Maximum input current.	I <sub>i</sub> =	216mA
Maximum input power.	P <sub>i</sub> =	1,0W
Maximum internal capacitance	C <sub>i</sub> =	0,0 $\mu$ F
Maximum internal inductance	L <sub>i</sub> =	0 $\mu$ H

##### [16] Report No. 165316

###### Certificate History and Associated Nemko Reports

Issue	Date	Report	Description
0	2004.11.11	31101	Prime Certificate released
1	2010.02.19	144161	Added lower voltage options for Safety components D13 & D14
2	2011-01-27	165316	Added alternative manufacturer for D8, 9, 10, 11, 19 and D20. Rating unchanged.

##### Descriptive Documents

Name/Number	Rev.	Date	Title/Description	Sheets
SD0545200	B	05 dec 2011	ASSEMBLY DRAWING 7330 SAFETY COMPONENTS LIST	1

##### [17] Special Conditions for Safe Use

The surface of the plastic material exceeds the limit of 4cm<sup>2</sup> as specified in EN50284, and the probability of electrostatic charging needs to be considered for use as Category 1.

##### [18] Essential Health and Safety Requirements

See item 9

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