

(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: **KEMA 03ATEX1580 X**

(4) Equipment or protective system: **Capacitive level transmitter Model TC30 with Probes Series CLT and CLS**

(5) Manufacturer: **SGM Lektra S.r.l.**

(6) Address: **Via Papa Giovanni XXIII, 49, I-20090 Rodano Millepini (MI), Italy**

(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) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the 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. 2031803.


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

**EN 50014 : 1997                      EN 50020 : 2002**  
**EN 50284 : 1999                      EN 50281-1-1 : 1998**

(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 according 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 GD EEx ia IIC T4 ... T6 IP 65 T85 °C**

Arnhem, 8 March 2004  
 KEMA Quality B.V.



C.G. van Es  
 Certification Manager

\* This Certificate may only be reproduced in its entirety and without any change

## SCHEDULE

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### to EC-Type Examination Certificate KEMA 03ATEX1580 X

(15) **Description**

Capacitive level transmitter Model TC 30 with integral or remote Probes Series CLT and CLS, for measurement of the level of a fluid in a storage tank.

The relation between the ambient temperature range and the temperature class is given in the table below:

Ambient temperature range	Temperature class
-30 to + 40 °C	T6
-30 to + 55 °C	T5
-30 to + 80 °C	T4

The maximum surface temperature of the enclosure T 85 °C is based on a maximum ambient temperature of +80 °C.

**Electrical data**

Supply and output circuit: (terminals M1-1, M1-2) in type of explosion protection EEx ia IIC, only for connection to a certified intrinsically safe circuit, with the following maximum values:

$U_i$	=	30	V
$I_i$	=	100	mA
$P_i$	=	750	mW
$C_i$	=	0	nF
$L_i$	=	0	mH

**Installation instructions**

When used in a potentially explosive atmosphere endangered by the presence of combustible dust, the cable entry devices and blanking elements shall provide a degree of ingress protection of at least IP 65 according to EN 60529.

**Routine tests**

None.

(16) **Report**

KEMA No. 2031803.

(17) **Special conditions for safe use**

The ambient temperature ranges and temperature classes are as specified under (15 - Description) above.

For the Models provided with an aluminium transmitter enclosure, the installation shall be such that ignition due to impact is avoided.

For the Models provided with a non-metallic transmitter enclosure, the installation shall be such that ignition due to hazardous electrostatic charges is avoided.

The capacitive level probe shall be installed such that ignition due to hazardous electrostatic charges is avoided.

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When the temperature under rated conditions can be higher than 70 °C at the cable entry point or 80 °C at the branching point of the conductors, suitbale cable or wiring shall be used with a temperature rating at least equal to the maximum temperature in service.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

Document No.		<u>dated</u>
	Td97021c-Ex (2 sheets)	20.07.1999
	Td97020b-Ex	30.06.1999
	DA99001B-Ex (2 sheets)	12.12.2003
	850B006X-Ex	11.12.2003
	Dt97002c-Ex (3 sheets)	30.06.1999
	SC99001A-Ex	14.07.1999
	350A054D-Ex (2 sheets)	14.07.1999
	530A070D-Ex (3 sheets)	14.07.1999
	350A054L-Ex (2 sheets)	14.07.1999
	530A070L-Ex (3 sheets)	14.07.1999
	350A054E-Ex (2 sheets)	14.07.1999
	530A070E-Ex (3 sheets)	14.07.1999
	350A054E-Ex (2 sheets)	14.07.1999
	530A070A-Ex (3 sheets)	14.07.1999
	DA01001C-Ex (7 sheets)	12.12.2003 / 07.01.2003
	DA01002C-Ex (5 sheets)	12.12.2003
	DA01003C-Ex (7 sheets)	12.12.2003