

## (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 99ATEX3726**

(4) Equipment or protective system: **Indicator Model ID3sTx**

(5) Manufacturer: **Mettler-Toledo (Albstadt) GmbH**

(6) Address: **Unter dem Malesfelsen 34, 72458 Albstadt, Germany**

(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. 2029256.

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

**EN 50014 : 1997**

**EN 50020 : 2002**

**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 2 G EEx ib IIC T4 and**



**II 2 D IP65 T 50 °C**

Arnhem, 15 August 2003  
KEMA Quality B.V.

C.G. van Es  
Certification Manager

© This Certificate may only be reproduced in its entirety and without any change.

## SCHEDULE

(13)

(14)

**to EC-Type Examination Certificate KEMA 99ATEX3726**

(15) **Description**

The Indicator Model ID3sTx serves for connection to scales containing analog load cells. The Indicator is provided with a Liquid Crystal Display for parametric readout and a keyboard. Additionally two fibre optic output channels are provided for communication with a fibre optic receiver/transmitter module located in the non-hazardous area. This fibre optic communication can only be provided when the Indicator is used in explosive atmospheres caused by gas, vapours or mists.

An optional input board for connection of passive devices can be installed.

Either the Supply unit Type 230VAC-ID3sTx certified per KEMA 99ATEX3727 or the Rechargeable Battery Pack Type 12V/1,2AH-ID3sTx certified per KEMA 99ATEX3729 may be used inside the enclosure of the Indicator Model ID3sTx.

The enclosure of the Indicator provides an ingress protection of at least IP 65 in accordance with EN 60529.

Ambient temperature range -20 °C ... +40 °C.

The maximum surface temperature of the enclosure, T 50 °C is referred to a maximum ambient temperature of 40 °C, valid with the use of an external power supply, Supply unit Type 230VAC-ID3sTx, or Rechargeable Battery Pack Type 12V/1,2AH-ID3sTx.

### Electrical data

General:

Power supply circuit ..... in type of explosion protection intrinsic safety  
(terminals J2, pins 1,4 and 5) EEx ib IIC, only for connection to a certified intrinsically safe circuit with the following maximum values:

$U_i$	=	14,3	V
$I_i$	=	935	mA
$P_i$	=	3,3	W
$C_i$	=	0	$\mu$ F
$L_i$	=	7	$\mu$ H

Loadcell circuit ..... in type of explosion protection intrinsic safety  
(terminals J1, 1-7) EEx ib IIC, with the following maximum values:

$U_o$	=	7,14	V
$I_o$	=	298	mA
$P_o$	=	0,53	W
$C_o$	=	13,4	$\mu$ F
$L_o$	=	300	$\mu$ H

2 Fibre optic output channels ... Maximum output power is 0,4526 mW/mm<sup>2</sup>  
(terminals J3/J4 each channel)

## SCHEDULE

(13)

(14)

### to EC-Type Examination Certificate KEMA 99ATEX3726

Optional input board:

Output circuit ..... in type of explosion protection intrinsic safety  
(terminals KL1, 1-2) EEx ib IIC, with the following maximum values:

$U_o$	=	7,14	V
$I_o$	=	17	mA
$P_o$	=	30	mW
$C_o$	=	13,4	$\mu$ F
$L_o$	=	100	mH

**Installation**

For use in explosive atmospheres caused by air/dust mixtures, the fibre optic communication connectors shall not be installed, and the blanking elements supplied with the Indicator shall be installed.

(16) **Report**

KEMA No. 2029256.

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

None.

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

Essential Health and Safety Requirements not covered by the standards listed at (9)	
Clause	Subject
2.2.2.3. and 2.2.2.4	Explosive atmospheres caused by air/dust mixtures

These Essential Health and Safety Requirements have been examined and positively judged. The results are laid down in the report listed at (8).

(19) **Test documentation**

1. EC-Type Examination Certificate KEMA 99ATEX3727  
EC-Type Examination Certificate KEMA 99ATEX3729

	<u>dated</u>
2. Description (5 pages)	12.08.2003
Parts list 220023331	12.08.2003
3. Drawing No.	
A14718300A, rev. 4	)
A14729500A, rev. 2	)
A90030100A, rev. 5 (2 sheets)	)
BB-22002333 A	)
BF-22002333 A	)
CL-22002333 A (2 sheets)	)
	05.08.2003
	12.08.2003

## SCHEDULE

(13)

(14)

to EC-Type Examination Certificate KEMA 99ATEX3726

(19) Test documentation (continued)

	<u>dated</u>
C14722800A, rev. 5	05.08.2003
C14723000A, rev. 1	05.08.2003
ES-22002332 A	)
LM-22002333 A (2 sheets)	) 12.08.2003
ME-22002331 A	)
ME-22002333 A	)
00507943 A4	08.08.2003
13292200A, rev. 3	)
13292300A, rev. 2	)
13297800A, rev. 2	)
13379600A, rev. 1	)
14724800A, rev. 14	)
14724900A, rev. 15	) 05.08.2003
14729200A	)
14836400A, rev. 1	)
148451R, rev. 5	)
150102R, rev. 1	)
16756500A	)
16756500B	)
16756500C	)
16756500D	)
16756500E	) 13.08.2003
16756500F	)
16756500J	)
16756500N	)
16756500K	)
167566R	)
16756700A, rev. 1 (11 sheets)	) 05.08.2003
16952500A	)
203654 A4	08.08.2003
22000152 A4	08.08.2003
22000165 A3, rev. B	)
22000167 A3, rev. A	) 01.08.2003
22000168 A3, rev. A	)
22000248 A3, rev. B	08.08.2003
22000252 A3, rev. A	01.08.2003
22002365 A3	12.08.2003
22002370 A2, rev. A	12.08.2003
22003616 A3, sheet 1, rev. A	01.08.2003
22003620 A4, rev. A	01.08.2003
22006372	08.08.2003