



## Translation

# (1) EC-Type Examination Certificate

- Directive 94/9/EC -

Equipment and protective systems intended for use in potentially explosive atmospheres

**BVS 07 ATEX E 149** 

(4) Equipment:

(2)

(3)

Communication module type ACM200

(5) Manufacturer:

Mettler-Toledo (Changzhou) Measurement Technologie Ltd.

(6) Address:

10 Kunlun Road, Changzhou Xinbei District,

Jiangsu Province, PRC 213125, China

- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the schedule to this type examination certificate.
- (8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment 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 test and assessment report BVS PP 07.2110 EG.

- (9) The Essential Health and Safety Requirements are assured by compliance with: EN 60079-0:2006 General requirements EN 60079-11:2007 Intrinsic safety 'i'
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment 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 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 shall include the following:

(Ex II (2) GD [Ex ib] IIC								
VCX/ II (2) (TD   ITX II) III	7	HO	ibl	IEx.	GD	(2)	II	$\langle \epsilon_x \rangle$

### DEKRA EXAM GmbH

Bochum, dated 10. October 2007

Signed: Dr. Jockers

Signed: Dr. Eickhoff

Certification body

Special services unit



(13) Appendix to

# **EC-Type Examination Certificate**

# **BVS 07 ATEX E 149**

(15) 15.1 Subject and type

(14)

Communication module type ACM200

15.2 Description

The communication module is an associated apparatus mounted outside the hazardous area and is used, in conjunction with weighing indicators in the hazardous area, for data transmission between the safe and the hazardous area.

The communication module consists of an interface board fastened inside a metallic enclosure; inside this enclosure a switchmode power supply unit can also be fastened optionally.

The IS circuits are passive circuits.

15.3 Parameters

15.3.1	Non-intrinsically safe circuits Max. voltage	Um		AC	250	V
	THE TOTAL OF					
15.3.2	Intrinsically safe interface circuits					
	Level of protection Ex ib IIC					
	Voltage		Ui	DC	10	V
	Current		Ii		300	mA
	Power		Pi		500	mW
	Internal Capacitance		Ci		120	nF
	Internal inductance		Li	negligible		
15.3.3	Ambient temperature range		Та	-10 °C up to +40 °C		

(16) Test and assessment report
BVS PP 07.2110 EG as of 10.10.2007

(17) Special conditions for safe use None

> We confirm the correctness of the translation from the German original. In the case of arbitration only the German wording shall be valid and binding.

44809 Bochum, 10.10.2007 BVS-Schu/Mi A 20070571

**DEKRA EXAM GmbH** 

Special services unit

**Translation** 

# 1. Supplement to the EC-Type Examination Certificate

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC Supplement accordant with Annex III number 6

(3) No. of EC-Type Examination Certificate: BVS 07 ATEX E 149

(4) Equipment: Communication module type ACM200-\*\*\*

(5) Manufacturer: METTLER-Toledo (Changzhou) Measurement Technology Ltd.

(6) Address: Xinbei District, Changzhou, Jiangsu 213125, P. R. China

(7) The design and construction of this equipment and any acceptable variation/thereto are specified in the appendix to this supplement.

(8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment 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 test and assessment report BVS PP 07/2/10/EG.

(9) The Essential Health and Safety Requirements are assured by compliance with

IEC 60079-0:2011 | General requirements IEC 60079-11:2011 Intrinsic safety V

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the appendix to this certificate.

(11) This supplement to the EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to 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 shall include the following:



II (2) G [Ex ib Gb] IIC II (2) D [Ex ib Db] IIIC

DEKRA EXAM GmbH Bochum, dated 30.11.2011

Signed: Simanski Signed: Dr. Eickhoff

Certification body Special services unit

Page 1 of 3 to BVS 07 ATEX E 149 / N1

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- (13) Appendix to
- (14) 1. Supplement to the EC-Type Examination Certificate BVS 07 ATEX E 149
- (15) 15.1 Subject and type

Communication module type ACM200-\*\*\*
Instead of the \*\*\* in the complete denomination the letters AC or DC depending on the used power supply will be inserted.

#### 15.2 Description

The communication module can be modified according to the descriptive documents as mentioned in the pertinent test and assessment report. The circuitry of the module will be modified and assessed in acc. with IEC 60079-0:2011 and IEC 60079-11:2011. Therefore the communication module gets a modified marking.

## 15.3 Parameters

- 15.3.1 Non-intrinsically safe circuits
- 15.3.1.1 Mains supply
  Type ACM200-AC
  Nominal voltage
  Max. voltage

  Type ACM200-DC

Type ACM200-DC
Nominal voltage
Max. voltage

Mm

AC

12 - 24

V

V

V

15.3.1.2 Data output circuit
Max. voltage

Max. voltage 250

15.3.2 Intrinsically safe interface circuits

Level of protection Ex/16/19 Voltage Lli DC 10 Current Υ'n. 300 mA Power Pi 500 mVV Internal Capacitance Ćí 120 nF Internal inductance Li negligible

15.3.3 Ambient temperature range

AO

AC

11m

100 - 240 V

250

# (16) Test and assessment report

BVS PP 07.2110 EG as of 30.11.2011

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(17) Special conditions for safe use

None.

We confirm the correctness of the translation from the German original. In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH 44809 Bochum, 30.11.2011 BVS-Schu/Her A 20110778

Certification body

Special/services/unit

Page 3 of 3 to BVS 07 ATEX E 149 / N1

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