

Translation

(1) EC-Type Examination Certificate

(2) Equipment and protective systems intended for use
in potentially explosive atmospheres - Directive 94/9/EC

(3) No. of EC-Type Examination Certificate: **BVS 13 ATEX E 089**

(4) Equipment: **Multimetert type Metraline EXM25**

(5) Manufacturer: **GMC-I Messtechnik GmbH**

(6) Address: **Südwestpark 15, 90449 Nürnberg, Germany**

(7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix 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 14.2074 EG.

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

EN 60079-0:2012 General requirements

EN 60079-11:2012 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 appendix 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:



II 2G Ex ib IIC T6...T4 Gb
I M2 Ex ib I Mb

DEKRA EXAM GmbH
Bochum, dated 2014-04-01

Signed: Simanski

Certification body

Signed: Dr. Wittler

Special services unit

- (13) Appendix to
- (14) **EC-Type Examination Certificate**
BVS 13 ATEX E 089
- (15) 15.1 Subject and type

Multimeter type Metraline EXM25

15.2 Description

The hand-held multimeter is used for short-time measurements inside active intrinsically safe circuits or in de-energized circuits or to verify if a circuit is de-energized.

The multimeter type Metraline EXM25 is for measuring voltage, resistance, current and frequency additionally - in some cases with probes - for temperature and high currents. The housing is electrostatically conductive.

The multimeter (model M210A) is powered by rechargeable battery type Z209A EXM-AK9 and is suitable for use in temperature class T4. The multimeter (model M210B) is powered by battery type Z209B EXM-LB3 and is suitable for use in temperature class T6. The battery packs may be changed inside the hazardous area. The rechargeable battery type Z209A EXM-AK9 may only be charged outside the hazardous area.

Only the accessories (tips, temperature probes, batteries etc.) which are included in the certificate may be used with the multimeter.

15.3 Parameters

15.3.1 Measuring ranges

15.3.1.1 Voltage Measurement

15.3.1.1.1 With tips type EXM72010

Gruppe / group

IIC	AC / DC	up to 690	V
IIB	AC / DC	690	V
I	AC / DC	1000	V

15.3.1.2 Resistance measurement with 4 mm standard test lines

Safety related limits

Voltage	U_o	6	V
Current	I_o	2	mA

Group IIC

external capacitance	C_o	40	μF
external inductance	L_o	1000	mH

Group IIB

external capacitance	C_o	1000	μF
external inductance	L_o	1000	mH

Group I

external capacitance	C_o	3000	μF
external inductance	L_o	1000	mH

15.3.1.3 Temperature with tips TMZ 25

Temperature range - 80 °C < Ta < 600 °C

15.3.1.4 Frequency measurements with tips type EXM72010

frequency range 2 Hz up to 20 kHz

15.3.1.5 Current measurement

15.3.1.5.1 With 4mm standard test lines only in intrinsically safe circuits

up to 50 V _{Peak}		up to 2	A
internal inductance	L_i	< 5	μH

15.3.1.5.2 Current with current probe type MZ 1005 (for group I only)

Current up to	AC / DC	1000	A
Frequency up to		500	Hz

15.3.2	Batteries			
15.3.2.1	Type Z209B EXM-LB3			
	Nominal voltage		DC	3.6 V
	Maximal voltage	U ₀		3.9 V
	Temperature classification			T6
15.3.2.2	Type Z209A EXM-AK9 (rechargeable)			
	Nominal voltage		DC	9.1 V
	Maximal voltage	U ₀		11.2 V
	Temperature classification			T4
15.3.2.3	Type Duracell MN1604 Plus Power Duralock (6LF22) (for current probe MZ 1005)			
	Nominal voltage		DC	9 V
	Maximal voltage	U ₀		9.9 V

(16) Test and Assessment Report

BVS PP 14.2074 EG as of 2014-04-01

(17) Special conditions for safe use

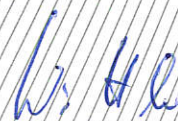
None

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, 2014-04-01
BVS-Bo/Schu/Ma A20130738



Certification body



Special services unit